

**NOW WITH  
A 790K  
DISK!**  
FOR YOUR  
• AMIGA  
• ST, &  
• PC  
Full guide  
inside...



# COMPUTER EXPRESS

FIRST NEWS • FIRST REVIEWS • BEST BUYS • YOUR WEEKLY GUIDE

**ON YOUR  
PACKED  
DISK...**

## AMIGA

- **CHINA CHALLENGE**  
Brutally addictive  
puzzle game
- **bBASE II**  
Feature-packed, user-  
friendly database

## ST

- **ROBOTZ**  
Classic arcade  
adventure
- **VIEWGIF**  
Superb image  
converter

## PC

- **CAPTAIN COMIC**  
Seriously lunatic  
platform action
- **CANARY**  
Top anti-virus  
shareware demo

**Inside: all you  
need to know!**

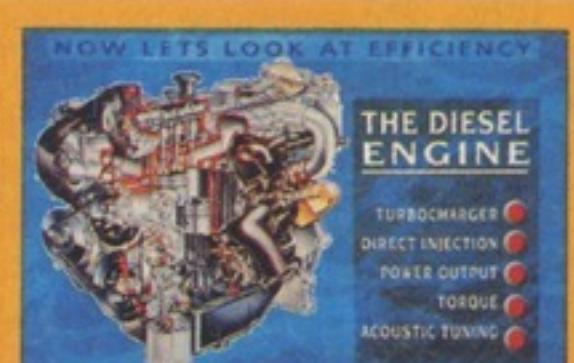
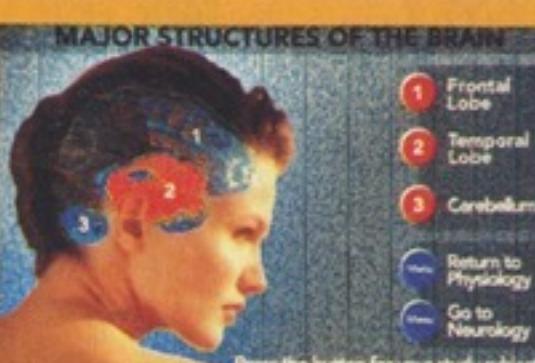
# AMSTRAD ATTACKS AMIGA AND ST!



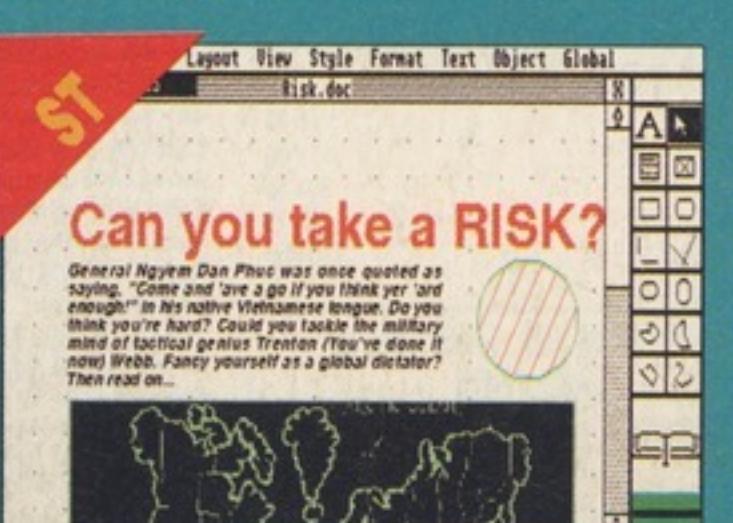
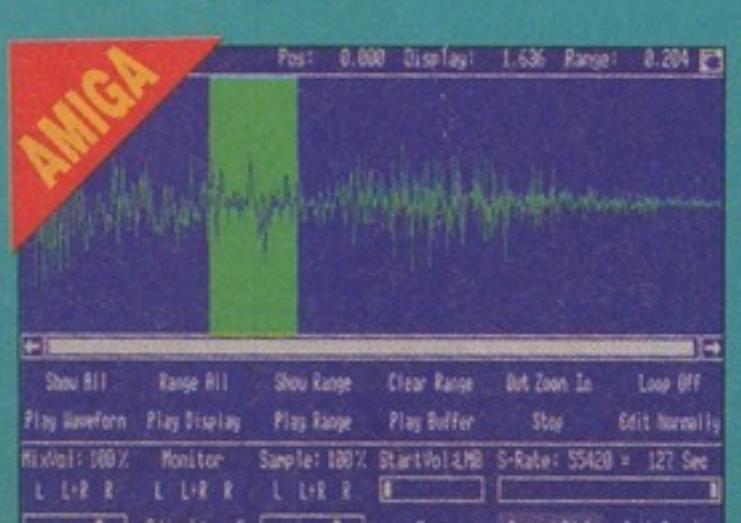
**EXCLUSIVE**

Gluttons for punishment?  
Amstrad takes another  
shot at a games PC...

**Fast forward  
with the Mac!**  
How to produce the best desktop videos



**PLUS!** 13 FACT-PACKED PAGES  
OF NEWS AND TIPS  
FOR YOUR MACHINE!



**NEW: Audition 4**

**NEW: Pagestream2**

**NEW: Softspeak II+**



# MASSIVE PRICE REDUCTIONS NOW EVEN BIGGER SAVINGS!!

LOOK FOR THE \*

# TRILOGIC AMIGA Supermarket

ORDER HOTLINE  
0274-691115

## HOW TO ORDER

ALL PRICES INCLUDE VAT\* - NO HIDDEN EXTRAS  
(\*at 17 1/2% excluding books)

### CARRIAGE

CARRIAGE FREE ON ALL ORDERS!

Optional 1-2 day Express Delivery  
£3.50 per order or £7.00 for guaranteed next working day.

(UK mainland, exc. Scottish Highlands).

FREE NEXT DAY DELIVERY ON ORDERS OVER £500

EXPORTS a speciality - add £1.99 for surface mail or £3.99 for airmail.  
(Computers, monitors & printers - Please phone for carriage charges).

TO ORDER BY MAIL, PHONE OR FAX

- Prompt Despatch

Simply quote your c/card details, name & address & your order & leave the rest to us. You are not charged until the goods are despatched. Or send cheque or PO (payable to TRILOGIC), or cash (send cash by registered post).

SALES ► 0274 691115

ENQUIRIES ► 0274 678062

FAX LINE ► 0274 600150

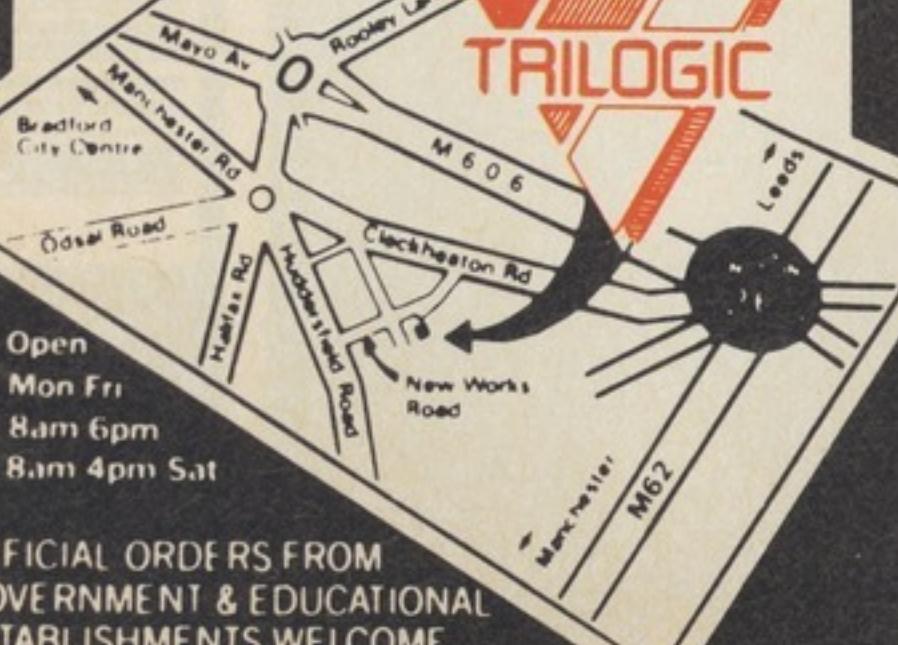
TRILOGIC

Dept. NCE, Unit 1  
253 New Works Road  
Bradford, BD12 0QP



Established 1984

TRILOGIC



OFFICIAL ORDERS FROM  
GOVERNMENT & EDUCATIONAL  
ESTABLISHMENTS WELCOME

## THE DATAFLYERS UNBEATABLE VALUE FOR MONEY THE DATAFLYER 500 RANGE

Our low cost high performance SCSI controller & hard drive units give you Amiga 500 real power. Similar styling to the A500, plugging directly into the Amiga's expansion slot, they are available with or without a SCSI drive installed. Optional mains power supply available but rarely necessary in our experience. The built-in SCSI interface offers fast, booting performance (autoboot selectable by holding down mouse button) at a low cost & is compatible with any SCSI drive installation instructions & utility disk included. 12 months warranty. Ready formatted - just plug in & switch on.

SCSI INTERFACE & HARD DRIVE HOUSING ONLY £129.99

OPTIONAL MAINS POWER SUPPLY £54.99

WITH 48meg 28ms SCSI drive fitted ONLY £269.99

WITH 60meg 28ms SCSI drive fitted ONLY £419.99

WITH 83meg 24ms SCSI drive fitted ONLY £459.99

WITH 111meg 15ms SCSI drive & psu ONLY £599.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

## THE DATAFLYER 2000 RANGE

Uses the same SCSI interface card as used in Dataflyer 500, but fits internally. Mounting holes drilled for most 3.5" SCSI drives. Available with SCSI hard drives fitted as listed below. All are self-booting, have fast access times & are self parking. An installation & utility disk for formatting & partitioning them is included. Up to 6 SCSI drives may be connected to one Dataflyer controller card. Ready formatted - just plug in & switch on.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

SCSI card with 83meg 24ms SCSI drive ONLY £419.99

SCSI card with 111meg 15ms SCSI drive ONLY £459.99

Drives up to 177meg available. P.O.A. Please ask for separate Dataflyer leaflet. Managing your hard drive is easy with DISKMASTER only £34.99 when purchased with any Dataflyer.

SCSI interface card for Amiga 1000 & 2000 ONLY £79.99

SCSI card with 48meg 28ms SCSI drive ONLY £224.99

SCSI card with 60meg 28ms SCSI drive ONLY £379.99

## YOUR MACHINE

### AMIGA

**AMOS 2** and **Audition 4** reviewed.....17

**Personal Video Editor**, **ProPage 3**, **ProDraw 2**, and an animated colouring book - all on .....53

### ST

**Pagestream 2** and **Harlekin 2** reviewed....18

**Magic Pockets**, **Populous 2**, **Air Warrior** and the latest versions of **Notator** and **Creator** await you on....54

### PC

**Virtual Business Toolkit** - a bargain at £15,000?...4

**Eye-Gard** and **SoftSpeak II** reviewed...17

Multimedia players for Windows, **WordPerfect** for Windows and cheap versions of **Quattro Pro** and **Paradox**..... 53

### MACINTOSH

Ellis Partners pioneering desktop videos.....14

**Display Postscript** and a new version of **Word** are in the pipeline on.....24

### CPC

Where to get a Plus for £100 less **PLUS** **Robozone** reviewed....25

### C64

**Terminator 2** previewed, **Combat** and **Ninja Massacre** cracked.....29

### SPECTRUM

**Hero Quest** reviewed and **Rainbow Islands** cracked to pieces .....32

### CONSOLES

Amazone Megadrive price-cut surprise .....7

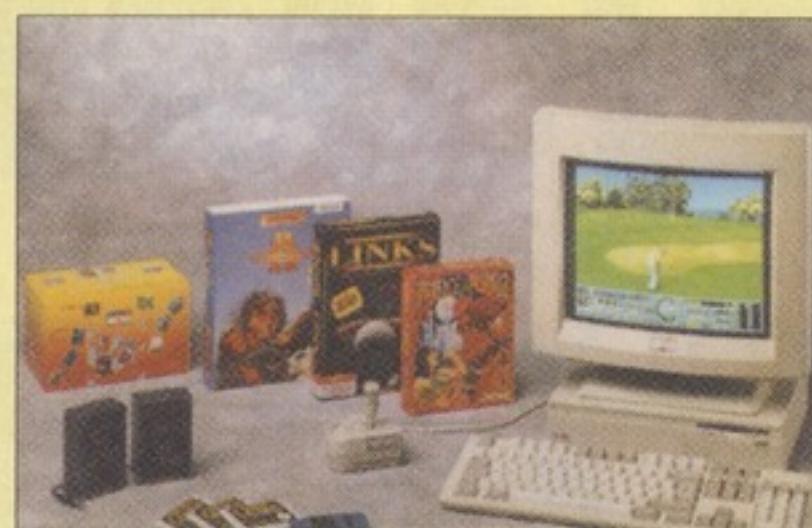
Catch a brand new console column and find some

**Lemmings** waiting to leap, **R-Type** cheats and news of Sega's CD-ROM.....33

# COMPUTER EXPRESS CONTENTS

7 September 1991 • Express 148

## COVER STORY



### A Snowball in hell?

Amstrad's new PC5286 is pitched as the perfect package for PC gaming. But can it compete against the Amiga, ST and consoles? - pages 4 & 5

- Brand new but all set to go the same way as the PC200?

## THIS WEEK

**News:** All the latest updates - page 4-7

### What's New

Floppies guaranteed for 20 years, 36 gigabyte optical storage and bargain joysticks - page 8



• Wyse's top-notch 33MHz 486 PC. Power with the price - at a mere £3,500!

## COVER DISK 1

**Express software:** Turn to page 9 right now to find out how to get your tri-format disk up and running

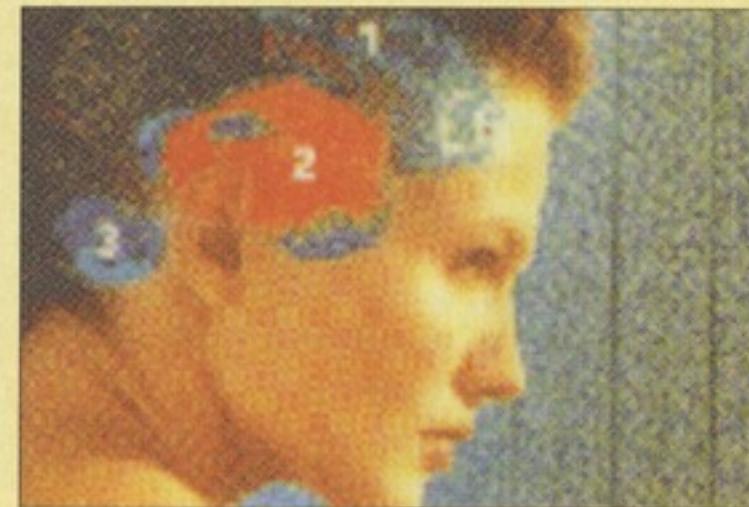


## THE EXPRESS FEATURE

### Desktop video comes of age

How the Mac is setting the standards in low-cost, high-quality video production - pages 14 & 15

- Turn on and tap into tomorrow's interactive Mac video



## INSIDE INFORMATION

### The Amiga, ST & PC pages

All the hottest gossip about your machine plus the most valuable previews and tips - pages 53, 55 & 56

- Exclusive! - **ProPage 3** for the Amiga



### Public domain

The essential guide to the best in low-cost software - pages 58, 59 & 60

## Games Week

News of **Rodland** and hologames

**PLUS: Darkman** for the Specie - glorious or grim? - pages 62 & 63



- Rodland - looking all set to be one of the biggest hits of the year

## SHOPPING EXPRESS

### 16-bit reviews

### Letters

### Mac

### 17 CPC

### 21 C64

### 24 Spectrum

### 25 Consoles

### 29 TechTips

### 32 On-line

33

36

49

## NEWS

## Open all ours

What is being claimed as the first World Video Games Open Championship is to be held in Bath during the weekend 21-22 September.

According to the organiser, Mr G Morgan, the event is totally independent of the computer industry and is '... promoted in the interests of the players...'.

Qualifying rounds start at 10am on 21st Saturday at the Community Centre, New King St, Bath. The final rounds begin from 1pm on 22nd Sunday at the same address. Competitors pay £2 to enter plus £5 which goes towards prize money. Spectators also pay £2.

For information call G Morgan on 0225 482590. ■



## Hoots away!

Sad news for PD freaks this week. We have been contacted by Peter Gunning of ScotSoft International, purveyors of Public Domain to ST users, who tells us that he has had to shut down the PD operation.

However, the library is up for sale to anyone interested in starting up their own effort. It is valued at £375 and comes with a customer list of over 200 names, and more than 400 disks including 50 clip art compilations which were put together by the company.

Contact Peter Gunning on 031-441 7952. ■

## Amiga users – you can have it all with Sybil

Sybil is the name of a new hardware/software utility for the Amiga. According to the company the device enables Amiga owners to achieve the following tasks:

- Amiga, ST, PC, and Mac files can be transferred to 'any DOS format'
- Amiga drives can now be used to read Mac format disks
- High density disk storage enables users to format standard double sided double density disks (DSDD) to

1.12Mb. These disks can still read by users who are not using Sybil according to the company.

- Data compression. An entire disk can be reduced to two Amiga DOS files. The data still retains copy protection.
- A Supercard AMI-style backup system which can also make multiple copies.

Sybil will cost £89 when it is eventually released later this year. For more information call Blitsoft on 0908 666265. ■

# "The market is ready for us to move" says Amstrad as it AMSTRAD GAMES

## Amstrad is to launch what could be the first of a new range of PCs.

The new computer will be a 16MHz 286-based PC called the PC5286 Games Pack. It comes with a 40Mb hard drive and 1Mb of on-board memory. It will not, however, be aimed at the business community but rather at the home user who wishes to run business software and also indulge in games playing. It will be priced at £1,050.

A three game bundle of *Prince of Persia* from Domark, *F-15 II* from Microprose, and *Links* from US Gold will be included with the PC.

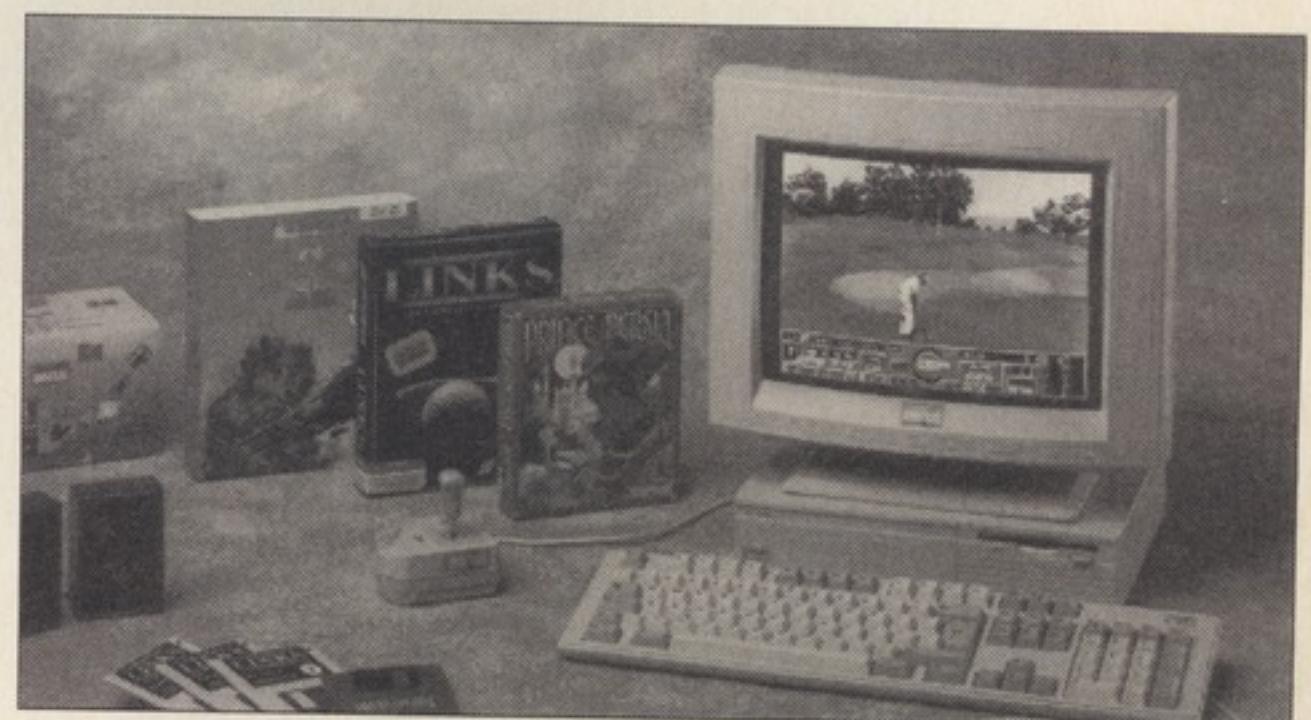
The PC5286 will have no options for expansion and it is probable that it will be forcefully targeted at the first time buyer. To this end, Amstrad has bought in a menu driven front end called Counterpoint, a colour icon-driven graphical user interface (GUI).

## SIGN OF THE TIMES

On behalf of Amstrad, sales and marketing director, Malcom Miller said: "Recently, the signs are already here that the (PC) market is ready for us to move – recent surveys have shown that in the UK, entertainment software on PC format is already outselling ST versions and is closing fast on the Commodore Amiga".

## LEADING THE WAY

Speculation within the industry, however, maintains that the games machine will not be a one-off. It is thought that it will be the first PC in a new series, possibly to be called the PC5000 range. The 5000s will



• *F-15 Strike Eagle II*, *Links Golf* and *Prince of Persia* make up the bundle with the new 286-based PC

eventually replace the third generation PC3000 series currently being pushed by Amstrad. The new series of PCs are expected to lead the way in a major restructuring of Amstrad's DOS-based machine range.

Amstrad's last games-based launch was the ill-fated CPC console, the GX4000 and the 6128 Plus machines, neither of which has sold in great numbers. The arrival of a new PC-based system which also takes on the games bundle ethic pioneered by Commodore and Atari places Amstrad in direct competition with the two games hardware giants. ■

## Get tooled up for virtual business

Dimension International, a UK-based company, will be launching its *Virtual Reality Toolkit* at the Time Europe '91 Exhibition which runs from 15 to 17 October.

The toolkit is PC-compatible software based on the Super-scape system. It enables business users to create virtual environments in which to experiment with their product ranges.

According to the company, users can make 3D environments within which realtime interaction can be carried out. Four kits are currently being beta tested with businesses throughout the

country. These companies include a waste management, robotics and educational project design. In order to produce the virtual worlds you make use of three modules:

- Visualiser: this provides the user with the ability to see the environments and 'intelligent' objects.
- Shapes Editor: this module allows the creation of objects to be used for interaction within the chosen environment.
- World Editor: create your environment.

In order to run the software you will need a healthy bank balance,

and the following system requirements: a 486-based PC running at 33MHz, an SPEA FGA graphics board with TMS 34020 graphics processor, an SPEA high resolution GDA 20-inch monitor and a Spaceball 2003 controller. Due to the fact the images are calculated in real time, the company claims that memory requirements are low.

The software editors and visualiser cost £15,000. There are also plans to create drivers for interaction with VR headsets, gauntlets and other paraphernalia of true virtuality. Call Dimension International on 0734 810077. ■

## Little helpers

*Prompt* and *Dragnet* are two new utilities which are aimed at making the Windows-user's life that bit easier.

*Prompt* shows all the files and subdirectories on your hard disk as a tree and you can search the disk for a filename. If you're not sure you've found the right file, you can view the contents, whether it is a text file or a PCX image.

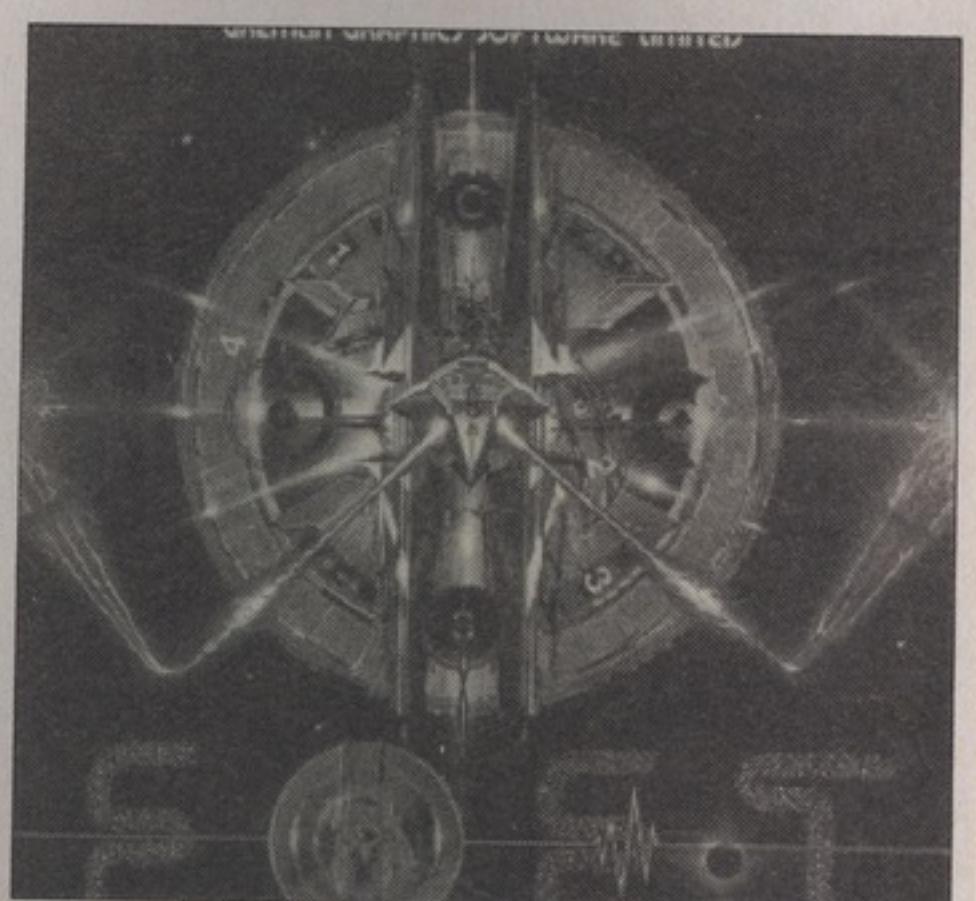
If you know what's in the file but you can't remember what it's called, *Dragnet* will search your files looking for a section of text. *Prompt* costs £119, and *Dragnet* is priced at £129. ■

## Need a bit of FOFT Touch?

Gamers get ready, two re-releases are winging their way to you via Mirror Image, the budget arm of Mirrorsoft.

*King of Chicago* is the first, a gangster bash set in the Chicago of the 1930s. You get to play Pinky Malone, your quest is to gain control of the city anyway you can. Formerly a Cinemaware release which never really caught the public's imagination in the UK. The graphics are reputedly of a high standard.

Second on the list is the legendary *Federation of Free Traders* or *FOFT* for short. Gremlin was the power behind this supposed *Elite* beater back in the distant past. Remembered for its heavily delayed release, obtuse manual, excruciating gameplay and general dullness, this is *FOFT*'s second re-release. It was also bundled with *PSS Jane Seymour*. Both games are £9.99 and are available for the ST, PC and Amiga. ■



• *FOFT* as was in its initial Gremlin release. It's out again but this time from Mirror Image. Will there be any changes?

enters the battle against the ST and Amiga

# PC GAMBLE

cover  
feature

## IT A FUNNY OLD GAME

Just exactly will the new machine offer potential users? Here are the details in full:

- 16MHz 80286 processor
- 1Mb RAM
- 40Mb hard drive
- 1.44Mb 3.5-inch floppy drive
- 14-inch VGA colour monitor
- DOS 3.3
- Analogue joystick
- Three games: *Prince of Persia*, *Links*, *F-15 II*.
- Ad-Lib compatible soundcard with joystick port
- PS/2-type mouse
- Two external speakers

The price has been set as £1,056.32

### HOW DOES THIS COMPARE WITH A SIMILAR AMIGA PACK?

● 1Mb Amiga	£399
● 40Mb hard drive	£350
● 14-inch monitor	£250

● joystick (analogue Gravis)	£47
● two external speakers	£40
● <i>Prince of Persia</i>	£25
● <i>F-15 II</i>	£25
● <i>Links Golf</i>	N/A

Total: (Approx) £1,136

### AND THE ST VERSION

● 1Mb ST	£399
● 40Mb hard drive	£330
● 14 -inch monitor (Philips CM8833/11)	£245
● joystick (analogue) (Gravis)	£47
● Two external speakers	£29.99
● <i>Prince of Persia</i>	£25
● <i>F-15 II</i>	£25
● <i>Links Golf</i>	N/A

Total: (approx) £1,022

NBAI prices are approximate

### EXPRESS ...

Microsoft chairman, Bill Gates, has donated \$1m to the Fred Hutchinson Cancer Research Centre in the US. The money will be used to help build a new campus.

..SNIPPET

## It's a gas!

Come friendly chips and drop on Slough! For this picturesque Berkshire town is the testbed for a new computerised system of gas meter reading.

Some 30 businesses in Slough are the first in the country to do without conventional meters. Instead they have had chips fitted which don't just measure the gas used, they can also tell the gas board if anyone has been tampering with the equipment.

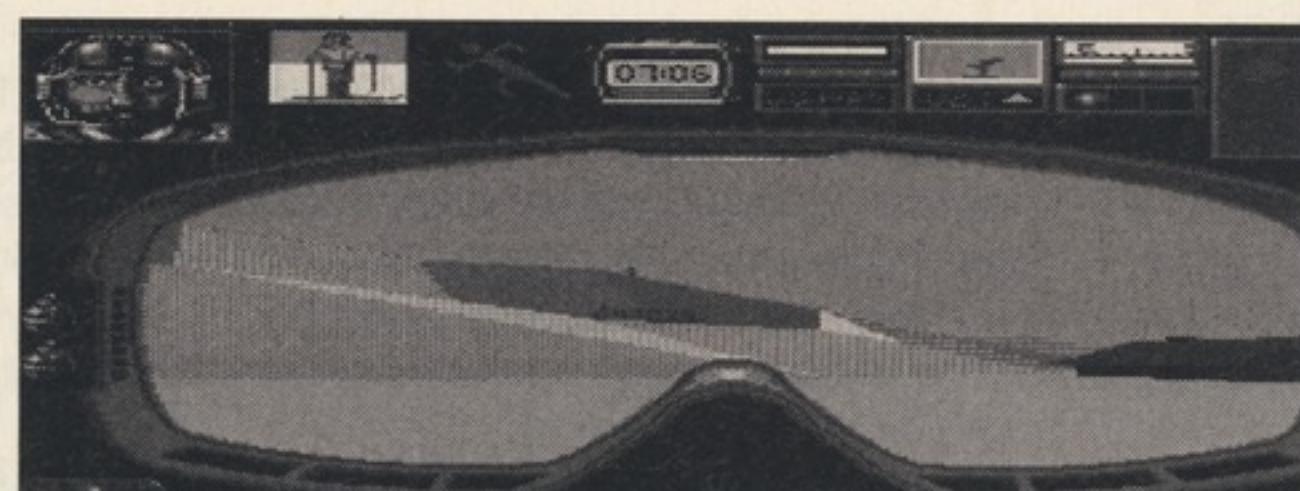
The major change, however, will be the disappearance of the gasman. The new meters can be read over the phone or using an ultra-sound option, from a van. ■

## Golden upgrade

Golden Image has launched a RAM card for the Amiga which is compatible with both Kickstart versions 1.2 and 1.3.

It enables the Amiga 500 to be upgraded to 2.5Mb of fast RAM or 1Mb of chip RAM and 1.5Mb of fast RAM. The card is bundled with 'RAM Test' and 'Extra Fast RAM' test programs, and costs £140. Call 081-365 1102. ■

## Double disc collection



● *Midwinter* - one of the six highly acclaimed Microprose games now available on *The Games Collection Vol 1* CD

Microhaus Limited has announced two CDs containing vast numbers of files in the form of demos and full games.

Disc one is called *Sampler Software Collection* and contains 13,000 files. The CD includes games, spreadsheets, word processors and databases. To track down files there is a full search facility by name, category and description. A file can then be decompressed straight to floppy. There is also a bulletin board sys-

tem, a library of Soundblaster files and an audio tutor.

The second disk is *The Games Collection Vol 1* and contains *Midwinter*, *Gunship*, *Rick Dangerous*, *Microprose Soccer*, *3D Pool* and *Savage*. You also get all the relevant keyboard overlays and manuals.

Microhaus is also offering a GenStar 2000 External CD-ROM player for the PC to play the games on for £350. The disks cost £88. Call 0452 371707. ■

## Shoot from the lip

"In a few years time, Bob Gleadow and I will probably look at each other and say 'Well one of us was wrong'". Jim Mackenzie of Commodore talking about Atari UK's MD's recent statement that CD-I rather than CDTV is the route to take.

"It is certainly a good piece of marketing, but I don't think that the public will take it up". A Commodore spokesman talking about Amstrad's new games PC.

"In today's more discerning economic climate, the end user needs as many computing options as possible for his money. The head of the house

wants to make a wise investment for his family..." Malcom Miller of Amstrad talking about the same machine while attempting to keep up with late 20th Century sexual politics.

"In Amstrad's latest press release there was a mention of new PCWs. Locomotive Software found that Amstrad's product offer needed some help' The introductory blurb to Locomotives' latest press release.

"The (six-a-side) teams will have the unique chance to play on the full-size Old Trafford pitch..." Sega appears to have the world's 12 fittest youngsters. ■



● *Suicidal? Lemmings* will be on the Atari Lynx next year. Spookily, the game from publisher Psygnosis also features in the current Commodore Amiga bundle

## More Lynx for Christmas

Atari has announced even more software support for its Lynx colour hand-held.

It claims that 20 games will be available for the machine in time for the festive period. These will include *Hard Drivin'*, *Ishido*, *STUN Runner*, *Bill and Ted's Excellent Adventure*, *Pacland*, *APB*, and *Chequered*

*Flag* among others.

Following the rush for Christmas titles, Atari is also planning to release conversions of three of this year's most respected games: *Lemmings* (already on the latest Amiga bundle, *Cartoon Classics*), *Pitfighter* and *Shadow of the Beast*. ■

## Let your home take the strain out of training

A new training system for Amiga owners has just been launched by High Wycombe-based JJc. Instead of hacking off the day-long seminars with people you don't like, you get to study from the comfort of your own home.

The training consists of waiting for the postperson to deliver one Amiga disk per month. The

disks carry regular sections relating to such areas as computer terms glossaries, questions and answers, AmigaDOS operation. There is also a personal question and answer option, and even a free digitising service.

The fee for a month is £5, the annual subscription will cost you £50. For more information contact JJc on 0494 883347. ■

### EXPRESS ...

Microprose is to join the New York stock exchange in order to try and raise \$16m. The company plans to sell two million shares at \$8 each in order to pay off debts.

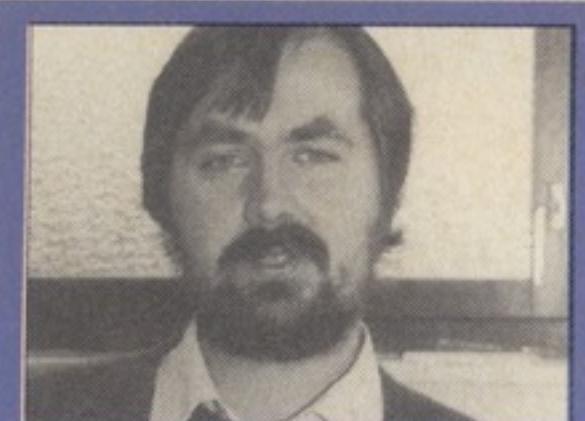
..SNIPPET

## Arc prepares for battle

The Acorn Archimedes fight on, this time with a new game. *Waterloo*, the simulation of the battle which put the word *Merde* into popular military usage, is now available for Acorn's RISC-based machine.

The game was programmed by Dr Peter Turcan, who was responsible for the *Borodino* and *Gettysburg* sims. *Waterloo* has already reportedly sold over 30,000 copies on other formats. In its latest, Archimedes guise, it comes with 3D battlefield views, a strong parser and sound effects. In fact the publisher, Turcan Research Systems, is even claiming that *Waterloo* accurately captures, among other things, the "...courage and timidity of men in battle". Rich claims indeed.

The game costs £24.95 plus £1 P&P. Call 071-625 8455. ■



• Howard Fisher, Locomotive's commercial director, moving with the PCW

## PCW Plus printer package

Locomotive has announced a range of products and bundles to take advantage of the launch of Amstrad's new PCWs.

LocoFont BJ is a printer package for PCW9512 Plus users. Specifically designed for those who purchase the BubbleJet option, LocoFont BJ provides Plus users with an additional 12 fonts and enables the printing of the entire LocoScript 2 character set including Greek, Cyrillic and special scientific characters. LocoFont BJ costs £34.44.

The company has also launched the LocoScript 2 and LocoMail User Guides two books to help PCW users take full advantage of these programs. Both come with sample disks and cost £19.95

Other existing Locomotive products that will be bundled with the new machines include LocoScript 2, LocoMail and LocoSpell with the PCW9512 Plus. The 9526 will come with a special LocoScript 2 and LocoFile demo offer, by which users will be able to send for a free demo disk, a free copy of Sprint, the LocoScript user magazine and a product guide. Call 0306 740606. ■

## Digital download from camera to your PC

Fotoman, from Logitech is the latest digital camera which can be connected directly to a PC.

The unit works in a similar way to the Cannon Ion. The user takes photographs in the conventional manner, but instead of trekking down to the developers, the data is simply downloaded to the PC. The photos, at this point merely blocks of data, are then treated using FotoTouch, a dedicated Windows-based image editing software.

Unlike the Cannon Ion, however, there is no magnetic media used to store the images. Instead, the camera comes with an internal RAM chip capable of storing up to 32 images. Fotoman comes

## Colour your crystal ball

The Crystal Trackball from Golden Image features a transparent ball which lights up red or green depending on which button you press.

Switchable for use on either the Amiga or the ST, it supports auto fire and key lock functions and is designed for sensitive fingertip operation.

So if you need a visual aid to help you remember which finger to twitch, the Crystal Trackball will set you back £39.

Contact 081-365 1102. ■

## Viglen launches 486 machines

Viglen has launched its Vig IV range, two high performance 486 PCs.

The Vig IV/33, at £1,799, is a 486DX running at 33MHz. It has a 100Mb hard disk and 4Mb of RAM which can be upgraded to 32Mb. The lower level Vig IV/SX runs at 20MHz which costs £1,499. It features 2Mb of RAM upgradable to 32Mb, and has an 80Mb hard disk capacity.

Super VGA versions of both are available for £1,949 and £1,599 respectively.

Both models have eight expansion slots and one parallel and two serial ports. They can be used as either desktop or mini tower computers and come supplied with MS DOS 5.0 and Windows 3.0.

For further information contact 081-997 3000.



• The new Vig IV range comes in either desktop or mini tower configurations

## Patents to stop manufacturing 3.5-inch disk drive

# RECEIVERS SHUT DOWN RODIME

Rodime, the firm which patented the 3.5-inch disk drive has gone into receivership.

It was founded in 1980 in Glenrothes as a breakaway group from the American Burroughs company, which later went on to become Unisys. And for a while it was lauded from the west coast of America to the Far East. However, since those heady days it has been a consistent non-profit maker. In fact 1984 was the last time its bank balance showed a black tinge.

### LEGAL WRANGLINGS

It will cease to exist as a manufacturer as soon as the legal wranglings have finished, probably within the next few weeks. Following this how-

ever, it will begin a new life as an intellectual property holder – it will begin by suing 30 other companies which make 3.5 inch drives. Rodime is able to do this because of a 1988 US Patent Office ruling which upheld the exclusive copyrights which the company had taken out on the drives.

### AFTERSHOCKS

IBM has already felt the aftershocks of this judgement. In November last year Big Blue was forced to pay out \$13m (approx £9m) in a settlement which went in favour of Rodime.

If all goes well for the company, and its patents run until 2004. It is more than likely that it will be making more money by not man-

ufacturing anything than it ever did when it was in business.

Peter Bailey, the president and chief executive, told the *Financial Times*: "It's unlikely that people will be able to produce a 3.5-inch drive without infringing our patents."

### SHARES SUSPENDED

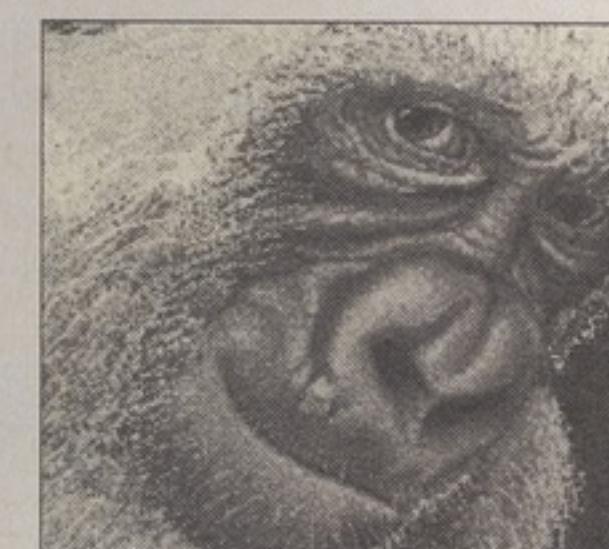
However until the law suits begin to pay off, it still remains the fact that Rodime's shares were suspended at 4p each, half of the 620 staff will be laid off, the Bank of Scotland is still owed somewhere in the region of \$35m (£29m). There are also several other share holders including the 3i Group waiting to see what happens to their money. ■

## The colour of money

A new printing bureau has emerged which caters specifically to the needs of Amiga users.

Called Studio 101, the bureau will take images created using such packages as *DPaint IV*, *Pro-Page* and *Photon Paint*, and laser print them to colour hard copy at a resolution of 300x300 dots per inch (dpi). The printer used by the company is also Pantone registered and so will accurately reproduce Pantone colours.

All you need to do is send in your disk and £5 for each A4 page to be printed. A charge of £2.50 is made for each additional copy made. Users of the system are also advised to ensure that all disks are virus



• The *DPaint III* monkey is given a new lease of life and so could your images if you decide to take your Amiga produced page layouts to a new bureau

free. In the event that a virus is found, you will be charged but not printed.

Contact Studio 101 on 0827 280884. ■

## All the fun of the unfair

A weird element of enjoyment entered the world of the computer hacker when it was uttered by a US assistant district attorney last week.

"Computer crime is fun" said Kenneth Cittarella of Westchester county, New York. He followed this with: "Computer criminals are smart" as he spoke at the National Conference on Computing and Values.

He was obviously speaking from the law enforcer's side of the fence, implying that the hunt for hackers was more stimulating than tracking down shoplifters or even crack dealers. He also went on to deny that there is a case of 'hacker hysteria' sweeping through local prosecutors. ■

Sega drops 16-bit console price in response to grey importers

# MEGADRIVE IN £20 PRICE CUT

For the second time this year, Sega Europe (formerly Virgin Mastertronic) is to cut the price of its Mega Drive games console.

The cut takes the machine from its previous £149 price point to £129. Effectively this takes into account the rise in VAT which occurred in the March budget.

For its part however, Sega is claiming that the move will repel the advances of grey importers – companies which independently import products and sell them to the public without the need to pay licensing costs to the manufacturer.

## READY FOR ACTION

According to Alan Sharman, Sega's UK managing director: "We know that with the last drop a lot of people pulled out of the (grey) market. £129 will make things very uncomfortable. We've already ordered more stock for Christmas, so we're ready." He continued: "Promotion for the new price point will be in the TV campaign which starts in September..."

Whether Sega will follow up the Mega Drive announcement with additional news relating to the 8-bit Master System and the



• Will Mega Drive's price cut scare off the grey importers as Sega would wish? Or can the unofficial dealers meet the challenge. The 16-bit price guerilla war starts here. Official

hand-held Gamegear has not been confirmed.

Finally, following the announcement, Sega released details of the number of units it has officially sold so far in the UK. 175,000 Mega Drives totalling £11.5m, and 325 Master Systems totalling £12m were the figures released by the company. ■

## GREY IMPORTS: WHAT TO LOOK OUT FOR

On the surface, buying hardware such as the Sega Mega drive, Nintendo Super Famicom, NEC Neo Geo and PC Engine to name a few, from grey importers could save you money.

However what you do not get if you purchase your equipment from non-licensed dealers, many of which are reputable companies, is as follows:

- Manufacturers' guarantees

- Manufacturers' service agreements
- Access to upgrades which are issued to licensed owners
- Repairs services

While grey importation is not actually illegal, it is frowned upon by the hardware manufacturers and their official dealers.

# Apple minds its own language

Apple is working with a number of other major companies (including Claris, Frame Technologies, Quark, Microsoft and WordPerfect) to create a new text transfer standard.

The new standard, called Rich Text, will allow users of programs from all of the above companies (and many more) to transfer text between applications and even between different types of computers without losing any of the formatting information.

It will retain such information as line lengths, spacing, paragraph styles, tab positions, embedded objects such as pictures, and the fonts used in the document. This will theoretically

allow a document written in a future version of Microsoft Word to be read into WordPerfect with no loss of formatting information.

The Rich Text standard is similar to Microsoft's own Rich Text Format (RTF), which other programs use. However, RTF has never really become an industry-wide standard as it was hoped; in particular, not many programs running on the IBM PC use it – and that is where the new format comes in handy.

Applications which support it won't be around for a while, but if Apple has its way it could become a standard in the next few years maybe even replacing the dated ASCII.

# Vein Glory

Vein Check, the revolutionary security system featured in *Express* issue 144, has just won the divisional heat of the Toshiba Year of Invention Awards.

Inventor, Joseph Rice, came up with the idea for the system which makes use of the unique patterns formed by the veins on the back of human hands, while sitting in his car in a traffic jam.

The award which qualifies Mr Rice for the national finals to be held in December, consisted of a Toshiba T1000LE, a camcorder and, more importantly for the future of Vein Check, funding to continue development of the device.



• A big hand for Vein Check. *Express* covered the early stages of its development, and now Toshiba has rewarded it

If Vein Check wins the grand final, Mr Rice stands to gain national recognition and a share of the £100,000 overall prize money. ■

## Innovative awards

The British Innovation Award is a major monthly competition designed to encourage the 'innovative talent of British companies and individuals'.

Sponsored by *The Sunday Times* and the control systems company Honeywell, the Award culminates in an annual presentation for the best innovation of the year.

It is separated into six categories: medical, transport, construction, telecommunications and computing, consumer products and helping the disabled.

Each monthly winner receives £300, while the annual prizes are £700 for each category and £2,000 for the overall best innovation.

A recent monthly winner, for example, was a credit card sized map system which came a special magnifier for people involved in outdoor activities.

For further information telephone 071-379 0304. ■

## EXPRESS...

US Wireless is to launch a mobile credit card verifier. The POS5 has two RJ11 phone jack sockets so that a laptop and fax machine can be connected to it.

So now even the icecream man can take Amex.

...SNIPPET

## Close down

Schneider, the German PC manufacturer and one time Amstrad companion, has announced that it is to close down its UK offices.

The company has switched all UK distribution of its PC range to Greyhound Marketing. According to Monica Worlfe of Schneider's German headquarters, the move had been underway since April.

A Greyhound director, Phil Arlot explained that his company had been importing its Schneider equipment from Germany rather than making use of the UK supplies. ■

## EXPRESS...

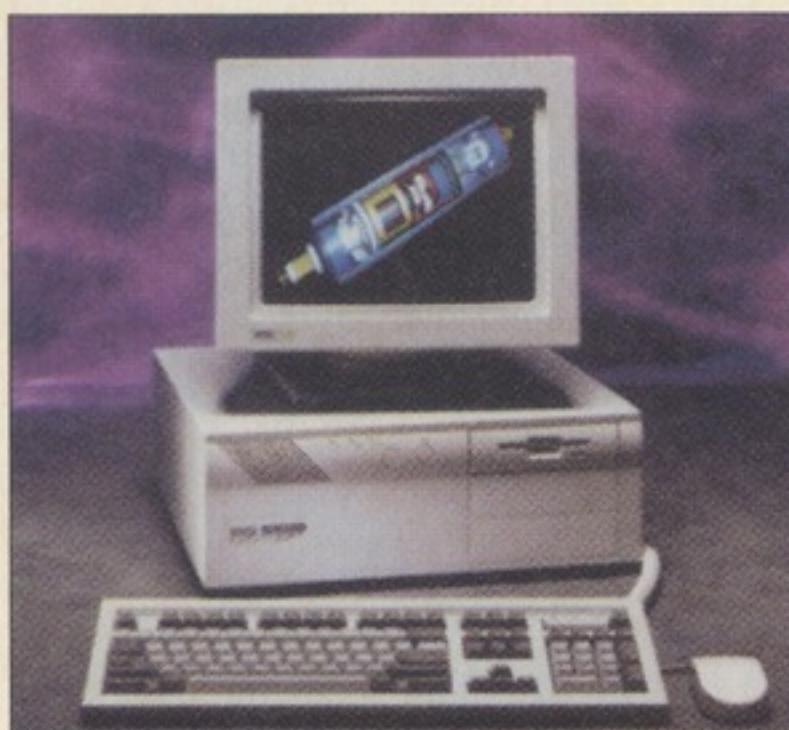
Ashton Tate has announced a software amnesty in the United States. All users of unlicensed *Multimate*, *Applause*, and *dBase IV* will be allowed to register the programs at reduced prices.

...SNIPPET

## NEW PRODUCTS

## Wyse offering

PRODUCT: i486 PC  
NAME: Decision 486/33  
COMPATIBILITY: PC



• Another 486 PC hits the stores this month. Although it is not aimed at the user in the street, there is no reason why you should not consider trashing that PC1512 and having a gander at the upmarket systems

PCs using the Intel 486 are becoming as common as suicidal Soviet hardliners at the moment, and Wyse's offering sits well with the pack.

Running at 33MHz, the machine is aimed at computer aided design (CAD), computer aided software engineering and computer aided manufacture (CAM) applications. It comes with 2Mb of RAM as standard expandable to 16Mb, and a 128K memory cache and is based on an Industry Standard Architecture data bus (ISA).

The unit has seven ISA expansion slots including one Centronic parallel, and two serial ports. There are also four half-height storage shelves and the ability to take a Weitek coprocessor.

System software, unusually in this era of the graphic user interface, is in the form of MS-DOS 5.

Both 5.25 and 3.5-inch drives are available, as are three hard disks ranging from 110Mb, 200Mb or 300Mb ESDI.

Price: Entry level single floppy drive, and interface for two IDE hard disk drives: £3,445. Model 300E ESDI hard drive system: including 300Mb ESDI hard disk: £5,435.

Availability: Now  
Target users: CAD, CASE and CAM users  
Contact: Wyse Technology: 0734 342 200  
Perceived competition: IBM, DEC, Tandon

## Optical storage

PRODUCT: Optical storage system  
NAME: Pinnacle range  
Compatibility: PC, Mac, Sun, Sparcstations, Vax

Before too long, the notion of storing your hard worked for data on a conventional floppy disk, with storage capabilities rising from a measly 173K to 1.44Mb, will be laughable. Optical storage is here to stay. And one company which is heavily involved with the new media is Microsystem Mainboard. It has just gained UK distribution for its re-writeable optical storage devices.

These include the Pinnacle range

## WHAT'S NEW

Details, details, details! That's what you get plenty of here. Express brings you the latest hardware and software news and releases in an easy to digest form....

## Cure your computer calamities

PRODUCT: Floppy disks  
NAME: Polaroid DataRescue  
Compatibility: Amiga, ST, PC, Mac

Some users have been known to wake up at night screaming "Don't bring that coffee near my data!" in agonies of panicked worry. In order to guard against such accidents as spilt beverages, errant magnet wielding children, viruses and the like, Polaroid is introducing a range of disks which it claims are 100 per cent error free and are protected by a 20 year guarantee.

In the event that a computer calamity does occur however, the company is backing a protective warranty with a service agreement; you damage the disk, and then send it to DataRescue HQ in California, and the company will "...make every attempt to recover 100 per cent of data free of charge...". It further claims that this reclamation process will be carried out with 48 hours of receiving the disk.

Both 3.5 and 5.25-inch formats are covered by this plan, and what's more the disks come with an anti-static liner



• The name Polaroid is enough to inspire confidence. Combine this with a 20 year guarantee and free data recovery and you could have an excellent deal

which cleans the surfaces of the disks.  
Price: Starting at approx £8.40 for 10 double density 5.25 inch, rising to £22.80 for 10 3.5 inch PS/2 high density 3.5-inch versions.

Availability: Now  
Target users: Anyone who uses floppy drives and is concerned about data loss.  
Contact: Sternstat: 081-991 1666  
Perceived competition: According to the company: "No one else is providing this kind of service..."

include raster, colour bars, horizontal and vertical lines, dots and a test card among others. It even comes with its own 16x2 character LCD monitor upon which the system operation details are displayed.

It is compatible with CGA, MDA, EGA, VGA, 8514/XGA and SVGA, and even standard TV monitors. Black Star also maintains its system can be factory set to meet the needs of many other monitors. Connection to the outside world is achieved with a BNC and 9, 15-way D connectors.

Price: £527.57

Availability: Now

Target users: Engineers and technicians

Contact: Black Star: 0480 62440

Perceived competition: None known



• A new range of microswitched computer hardware leisure devices interfaces (joysticks to you) is about to be for the Amiga, ST and even the humble CPC. The Jet line-up boasts what its manufacturer calls 'comfort grips'

## Go jet 'em

PRODUCT: Joysticks

NAME: Mega, Super and Micro-Jet  
COMPATIBILITY: ST, Amiga, CPC

When attempting to navigate around rebel empires, power up the line in a cup final match, or negotiate murderous platform levels you could use the keyboard. However a joystick cuts down on wear and tear.

This new range of three microswitched sticks from Cheam-based Product 2000 comprises three models: the basic is the Microjet which comes with two fire buttons and contoured grip. Next up the line is the Superjet with four buttons and autofire. Top of the range is the Megajet which comes with four fire buttons, autofire, speed controls and an LCD stop watch for those tricky levels.

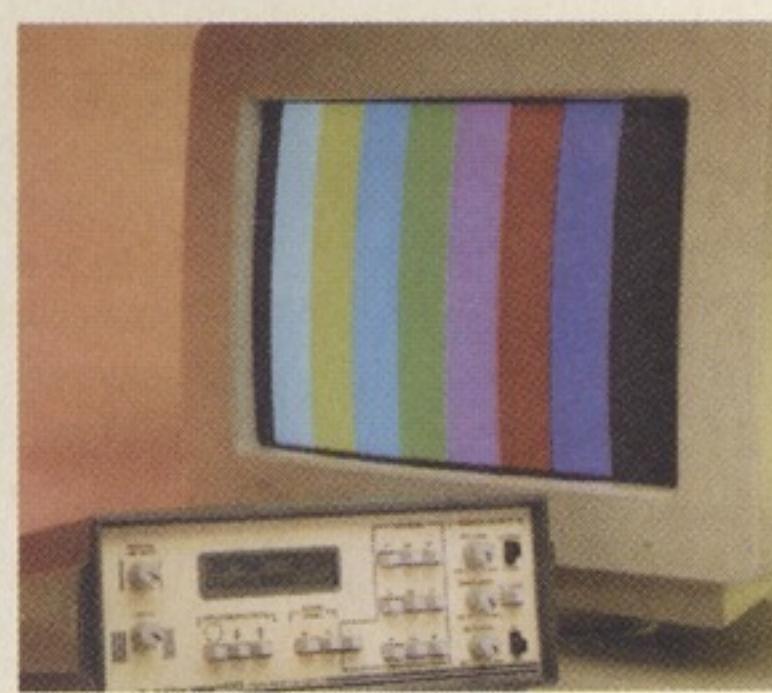
Price: MicroJet: £10.95. SuperJet: £12.95. MegaJet: £19.95

Availability: Now

Target users: 16 and 8-bit games players (available soon for Sega and Nintendo console ranges)

Contact: Product 2000: 081-644 0033

Perceived competition: Konix, Spectravideo, Cheetah.



• Feeling a little out of alignment? Having problems with your vertical hold while attempting some heavy duty 1-2-3 work. Get your monitor tested now and save your eyes.

# COVER DISK

Here it is at last – *New Computer Express* brings you a totally new experience – the world's first ever tri-format cover disk!

Welcome to the *New Computer Express* Cover Disk, a milestone in computer magazine publishing history. Not only is this the first time that a cover-mounted disk contains software for three different computers, but *Express* is also the first ever magazine to publish a cover disk every week.

The *Express* Cover Disk features software for the most popular 16-bit computers: the Amiga, Atari ST and PC compatibles. In the coming months we'll be putting together disks that you'll all find useful, and if you let us know what you want: we'll do our best to include programs that appeal to as many people as possible.

Quantity and quality are the names of the game, and we'll be packing the disk with as much software as possible. Not rubbish, mind you, but the best programs we can get our hands on. These could be demonstrations of commercial programs (of all types, not just games), Public Domain and shareware, as well as contributions from you, our valuable readers.

So sit back, relax and enjoy this wonderful new addition to your favourite computer magazine, *New Computer Express*.

## TRI-FORMAT TECHNOLOGY

Some of you might be wondering how we can put software for three different computers on a single 3.5-inch floppy disk.

Basically, it's a very clever process. Using a special utility developed by Rob Northen Computing we can determine just how much disk space we want for each machine. Given this flexibility, we can use what software we want to, depending on how much software we get in for each machine, and how much space it takes up. So, for example, one week we could dedicate 60 per cent of the disk to the Amiga, and 20 per cent each for the ST and PC; and the next week we could change the balance completely. This means that all computers are catered for, fairly and squarely.

We'll be trying to pack as many good programs as possible on to the disk, using the best compacting techniques around. At the same time, we'll also be trying to ensure that the disk is as easy to use and as fault-free as possible.

All this sounds quite simple on paper, but in reality

the format is quite complex. The disk will be tested to make sure it works with as many configurations as possible, but it's almost inevitable that some problems will arise.

If they do then write in and tell us, explaining what went wrong, what type of system and set-up you have, and whether you've been able to solve the problem. Write to: Cover Disk Problems, *New Computer Express*, 30 Monmouth Street, Bath BA1 2BW.

That way, if we get a lot of letters about a problem we can let other readers know about it in the next possible issue. And since *Express* is a weekly magazine, you'll all be informed of these problems (and, possibly, solutions to them) much sooner than any other publication.

## WHAT DO YOU WANT FROM A COVER DISK?

We think *Express* readers are the most active computer users around – you want details of all the latest events and products in the weird and wonderful world of computing, and we provide them. Every week.

Now we want the Cover Disk to be just as up to date and exciting. And while we're pretty confident that we can make it the best in the business, we'd like to hear what you want from it.

Write to us with your ideas and together we'll push this magnetic media to its limits. Send your ideas, opinions, praises, complaints and anything else concerning the Cover Disk to: Cover Disk Feedback, *New Computer Express*, 30 Monmouth Street, Bath BA1 2BW.

## BACKING UP

These days it should almost go without saying that you need to keep backups of your most valuable software.

In any case, we'll say it again: you need to keep backups of your most valuable software.

This includes your *Express* Cover Disk.

We have dedicated a page to each of the three machines – the Amiga, Atari ST and PC – and all the copying instructions are on each page.

Be warned that because the disk is a complicated format, some of these instructions could be a bit tricky.

AMIGA/ST/PC

## DISK CONTENTS

### AMIGA



**China Challenge**  
• bBase II

### ST



**Robotz** • ViewGIF

### PC



**Captain Comic** • Canary

## EARN UP TO £1,000

By now you will have seen what the first *Express* Cover Disk is like. It won't be like this every week, but what we put on it is largely up to what we get sent by you, the readers.

If you think you've written something that other *Express* readers would find useful, interesting or just plain fun then send it in! We're on the lookout for any software for the Amiga, ST and PC, and if we use it, we'll pay for it – up to a maximum of £1,000!

As you all know, *Express* is a weekly magazine which means we come out at least four times more often than the monthlies. So now you've got that many more chances to contribute your creation, earn some money and see your name in print.

### GUIDELINES TO FOLLOW

**1** Please document the software as much as possible. We'll be getting heaps of programs and to have to work out how to use them all will take up what little time we have to put together a great disk.

**2** Check for big mistakes in the program such as (any) bugs, errors, or file corruptions. If you find any, fix them and send the program in some other time. Just think: if it works, then we might even use it.

**3** Check for little mistakes in the program such as misspelled words. This may take a little extra time, but it will look that much more professional.

**4** Test everything before you send it in. If it's a duff disk then we won't be able to do anything with it, will we?

**5** In the case of PC software, try to use CGA as well as EGA and VGA graphics, and even MDA (monochrome) if possible. Also, if the program uses a mouse, try to make it so that it is an option and not an absolute necessity. Basically, try to accommodate as many PC users as possible.

**NB:** Unfortunately we won't be able to return any disks sent in to us. Not even if you include a SAE. The monthly magazines can do that, but because we put out a disk every week there is simply no time to arrange anything along those lines.

Once you've done all that and filled in the form on page 11, send all your contributions to: Cover Disk Contributions, *New Computer Express*, 30 Monmouth Street, Bath BA12BW.

## COVER DISK

## AMIGA

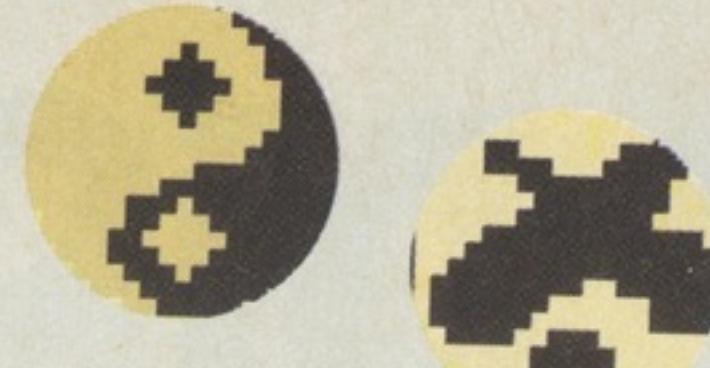


• China Challenge brings the age-old board game Mah Jong into the 20th century

## CHINA CHALLENGE

The thought of two Chinese men moving little white tiles around a board is hardly going to excite the world, but the game they're playing, Mah Jong, has proved pleasurable for hundreds of years.

China Challenge recreates the game on the Amiga, but in a far more up-to-date way. Amiga game players could well be familiar with Activision's *Shanghai* which was an early, but very popular version of the game. *China Challenge* is also a good implementation of the game, and it's free!



• All the tiles in *China Challenge* are based on ancient Chinese symbols

## LOADING THE GAME

To load *China Challenge*, turn your Amiga on, insert the Cover Disk in your disk drive and wait for the Workbench screen to come up.

When the disk icon appears (it's called Tri-Format), double click on it with the mouse pointer. This opens up a window with two folders – one which is labelled *China\_Challenge*. Double click on that folder, and when the next window appears, double click on the *China\_Challenge* icon. The game will then load.

To see the documentation, double click on the English icon in the same window.

## HOW TO PLAY

To start the game, click on the right mouse button and move the cursor to the right menu, then click on 'New Game'.

Playing the game is simple in concept, but difficult in practice. You can see a pile of 120 different tiles and it's up to you to get rid of them.

There are a couple of guidelines to follow, however. To remove the tiles, just click on a pair that match. They disappear from the pile, leaving you with two fewer tiles in the pile. And you can only remove tiles that don't have another tile to their right or left.

From there it is just a matter of continuously matching tiles until they've all gone. It may sound like a simple game, but it's very addictive and absorbing.

## DISK INFORMATION

PROGRAM: *China Challenge*

## DESCRIPTION: Game

DIRECTORY: *China\_Challenge*FILE (S): *China\_Challenge*, EnglishPROGRAM: *bBase II*

## DESCRIPTION: Database

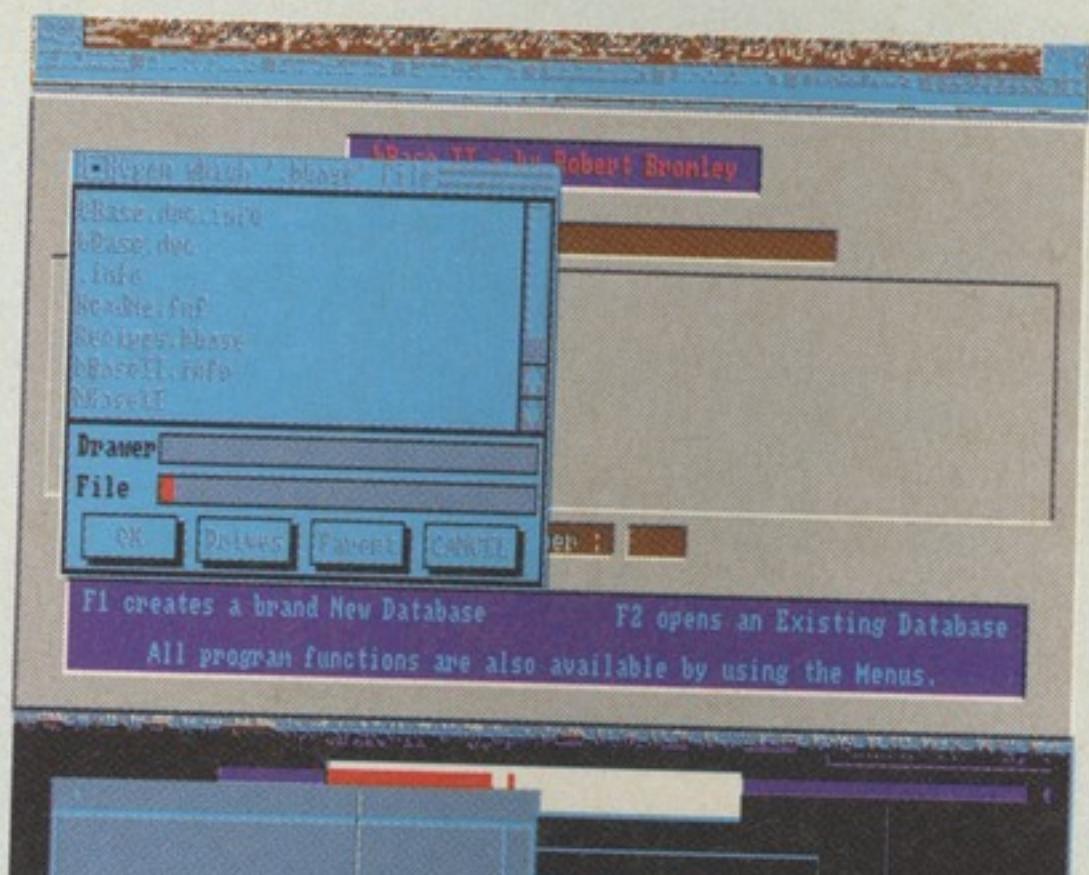
DIRECTORY: *bBasell*FILE (S): *bBasell*, *bBase.Doc*, *Readme.fnf*, *Recipes.bbbase*

For further instructions, read the document file, called 'English', which is in the same directory as *China Challenge* itself.

## BBASE II

Wouldn't it be handy if all you had to do to hunt down a magazine article in *Express*, for example, was to load up a program? No need to flick through hundreds of magazines – it would all be there on your computer. (Of course, you would have had to enter the information in beforehand).

*bBase II* is a database that does all that for you. Simple to use, it can store and sort all kinds of data in a structured and informative way.



• *bBase II* is really easy to use – just click on the file to load it

## HOW TO LOAD BBASE II

To load *bBase II*, wait for the Workbench screen to come up after you have put the Cover Disk into the computer's disk drive.

When the disk icon appears (it's called Tri-Format), double click on it with the mouse pointer. This opens up a window with two folders – one is labelled *bBasell*. Double click on that folder, and when the next window appears, double click on the *bBasell* icon. The program will then load.

To see the documentation, double click on the *bBase.doc* icon in the same window.

## USING BBASE II

Full documentation for *bBase II* is provided on the Cover Disk, but the program is very simple to use. Here is a brief run-down of its capabilities, best explained by what the different function keys do:

F1 – Creates a new database.

F2 – Opens an existing database.

F3 – Saves the database you are working on.

F4 – Sorts any data incrementally, from A to Z.

F5 – Sorts data decrementally, from Z to A.

F6 – Searches the database fields for data.

F7 – No function

F8 – Prints the record that is displayed on your printer

F9 – Prints the whole database on your printer

F10 – Deletes the record that is displayed.

There are also a number of file and sort functions accessible from the traditional Amiga menu screens. A good idea would be to test these functions with the demonstration database included on the disk: *Recipes.bbbase*.

## AMIGA BACK-UP COPY

1 Start your Amiga with your Workbench disk.

2 Take a blank disk and initialise it (instructions in your user manual).

3 Now enter the CLI, by double clicking on the CLI icon that is in your System draw on a standard Workbench disk.

4 Then enter the following CLI commands to set up our working environment (remember to press <RETURN> after each):

```
MAKEDIR RAM:C
COPY C:COPYDIRDELETE RAM C:
COPY C:MAKEDIRINSTALL RAM C:
PATH RAM:C ADD
PROTECT RAM:C RWE
PROTECT RAM:C/COPY RWE
PROTECT RAM:C/DIR RWE
PROTECT RAM:C/DELETE RWE
PROTECT RAM:C/MAKEDIR RWE
PROTECT RAM:C/INSTALL RWE
```

5 Once you have entered the commands and the drive light has gone out, take out your Workbench disk and put your *New Computer Express* Cover Disk in the internal drive (DF0:). To start copying, enter the following CLI command:

COPY DF0:#? RAM:

6 During copying, the machine will display a list of the files being copied. Once copying has finished, remove your Cover Disk and insert your newly formatted disk into the internal drive and enter the following commands:

COPY RAM:#? DF0:
DELETE RAM:#?

7 That's the first part of the Cover Disk copied. The next step is a bit more tricky.

Firstly, remove your copy disk and insert the Cover

Disk into the internal drive. Enter the following:

DIR DF0: OPT D

The Amiga should then display a list of all the directories on your Cover Disk which will look something like the following:

```
China_Challenge (dir)
c (dir)
bBasell (dir)
devs (dir)
l (dir)
libs (dir)
s (dir)
```

Write down this list onto a piece of paper (the '(dir)' extension is not needed).

8 With your Cover Disk in the internal drive, each directory that was listed has to be copied individually from the Cover Disk onto your copy disk.

So, as an example, to copy the *China\_Challenge* directory you would enter:

COPY DF0:China\_Challenge ALL RAM:

Now, remove the Cover Disk and insert your copy disk and type:

```
MAKEDIR DF0:China_Challenge
COPY RAM: ALL DF0:China_Challenge
DELETE RAM:#? ALL
```

9 Now repeat stage 8 for all the directories on the Cover Disk master. (So, in the CLI commands above, replace each instance of 'China\_Challenge' with the name of the directory to be copied). Once all the directories have been copied you will have a successful copy of the Cover Disk.

10 The final step in backing up the Cover Disk is to install it to make it bootable:

INSTALL DF0:

# ST



## ROBOTZ

Why do these things always happen? There you were, enjoying a quiet Saturday afternoon on the deep space exploration ship Darwin 8, when all of a sudden it was invaded by a hoard of hostile alien robots.

So far, they've killed everyone on the ship but you, and it is now up to you to save the ship – and, of course, your own skin – by destroying all the robots on the ship with your trusty rifle.

### LOADING THE GAME

Insert the Cover Disk into your disk drive. Open the ST folder by double-clicking on the icon labelled ST, and then double-click on the ROBOTZ icon to open the program's folder.

From there it is just a matter of double-clicking on the ROBOTZ.TOS icon to run the program.

To see the complete documentation for the program, double click on the ROBOTZ.DOC icon. When the ST displays a requester saying that ROBOTZ.DOC is a document file, click on SHOW and the document appears on-screen.



- Here the hero has to shoot the red generator before he can destroy the two enemy robots

### HOW TO PLAY ROBOTZ

The idea behind Robotz is to get through all the screens. This isn't easy though, as there are always at least two robots patrolling each level.

Because each of the robots gets power from a positronic generator, until you destroy the generator on each level your shots will only stun the robots. Fire 10 shots at the generator to do the trick.

At the same time, you have to avoid the robots and their fire power, as well as the walls of the maze which are electrified. Some of the gaps you have to move through are pretty narrow, so some deft joystick

manoeuvres are needed to survive each level.

The faster you complete each level, the greater your time bonus will be. For more details, and hints and tips on how to play the game, look at the document file also included on the Cover Disk.

### CONTROLS

Robotz is controlled by a joystick.

The joystick controls are: Joystick left – move left; Joystick right – move right; Joystick up – move up; Joystick down – move down. The fire button shoots a projectile out of your rifle. Press Q during the game to return to the title screen.

### VIEWGIF

For all you budding graphics artists and programmers out there, here is a utility that will make the manipulation and conversion of different graphics standards easier.

While the name of the program – ViewGIF – implies its sole purpose is viewing GIF-standard images, it is also capable of loading and converting images from other well-known graphics standards (for details of these, see the 'Using ViewGIF' section below).

### LOADING VIEWGIF

Insert the Cover Disk into your disk drive. If you have put the disk in your internal drive, double-click on the DISK A icon to access the disk.

Then, open the ST folder by double-clicking on the ST icon and then double-click on the VIEWGIF icon to open its folder.

From there it is just a matter of double-clicking on the VIEWGIF.PRG icon to run the program.

To see the complete documentation for the program, double click on the VIEWGIF12.DOC icon. When the ST displays a requester saying that VIEWGIF12.DOC is a document file, click on SHOW and the document appears on-screen.

### USING VIEWGIF

Full documentation for ViewGIF is provided in the VIEWGIF.DOC file, as mentioned above.

However, here's a brief rundown on what the program is capable of:

- IFF (Interchangeable File Format) picture loading.
- Atari ST images can be converted into GIF format for exchange with other systems.
- ViewGIF operates in all three of the ST's screen resolutions.

## COVER DISK

### DISK INFORMATION

**PROGRAM:** Robotz

**DESCRIPTION:** Game

**FOLDER:** ROBOTZ

**FILE(S):** ROBOTZ.TOS, ROBOTZ.DOC

**PROGRAM:** ViewGIF

**DESCRIPTION:** Utility

**FOLDER:** VIEWGIF

**FILE(S):** VIEWGIF1.PRG, VIEWGIF.NIC, VIEWGIF.RSC, VIEWGIF12.DOC

- A loaded image can be saved as NEO, Degas, Macpaint (in mono) or FL Format.

- GIF images can also be transformed into AIM (the Atari Image Manager) and Spectrum 512 pictures. The Spectrum 512 mode enables the ST to display 256 colour VGA graphics.

### SHAREWARE ADDRESS

ViewGIF is a Shareware program. This means that if you find the program useful or use it a lot then you are obliged to send the program's author a contribution to enable him to issue updates and make other programs.

To register as a user of ViewGIF, send US\$20, Canadian \$20 or £10 of Marks & Spencers Gift Certificates to: Craig S Buchanan, 4-319 Mackay Street, Ottawa, Ontario, K1M 2B7, Canada.

### ST BACK-UP COPY

Be warned that because the disk is a complicated format, some of these instructions could be a bit tricky.

1 Format at least one blank disk.

2 Write protect the original Express Cover Disk (with the notch open so you can see the hole through the disk) and insert it into the drive. If you've got two drives, insert the Cover Disk into drive B. Double click on the drive B icon to open a window showing the contents of the Cover Disk. If you've only got a single drive a message appears asking you to put disk B in drive A. Just click on OK.

3 Insert one of the blank formatted disks into drive A (removing the Cover Disk if you only have one drive). Double click on the drive A icon and open up another window. You may be asked to insert disk A in drive A - you already have, so do nothing and just click on OK.

4 Highlight each folder in the drive B Cover Disk window and drag them all into the drive A window, one at a time.

5 If you only have one drive, you're asked to insert disk A and disk B at regular intervals. Be careful not to mix the two disks up! Remember, Disk B is the original Cover Disk and disk A is the newly formatted blank disk.

## FANCY CONTRIBUTING? THEN FILL IN THIS FORM

NAME: .....

BRIEF DESCRIPTION: .....

ADDRESS: .....

CHECKLIST:

- README.DOC file included on disk
- Printout of README.DOC (if possible)
- Disk is labelled with your name, address, phone number
- Disk is certified virus free

TELEPHONE: ..... (day) ..... (night)

COMPUTER: Amiga Atari ST PC The name of the program is:

SIZE OF FILE(S): ..... K

TYPE OF SOFTWARE:

- Business application
- Game
- Music program
- Novelty
- Technical utility
- Art program
- Educational
- Other

DECLARATION: This program is submitted for publication by *New Computer Express*. I have totally written it myself, and I agree to indemnify Future Publishing against any legal action that may arise due to copyright problems.

SIGNED: .....

DATE: .....

## COVER DISK

## PC

## CAPTAIN COMIC

As Captain Comic, your mission is to recover three treasures from the planet Omsoc which have been stolen and hidden on the planet Tambi.

On your journey, you will have to pick up different weapons and tools to help you overcome the numerous obstacles you will encounter.

It won't be easy though, and to get the treasures will require all of your dexterity.

*Captain Comic* received a very good review in the PD column, Express Issue 144.

## TO START THE GAME:

First, the file has to be copied. Go to the COMIC directory on the Cover Disk and copy COMIC3.EXE to a blank formatted disk or a directory on your hard drive.

## HARD DRIVE INSTRUCTIONS

To make a directory on your hard drive, enter C:\ and then type MKDIR COMIC. This will create a directory called COMIC.

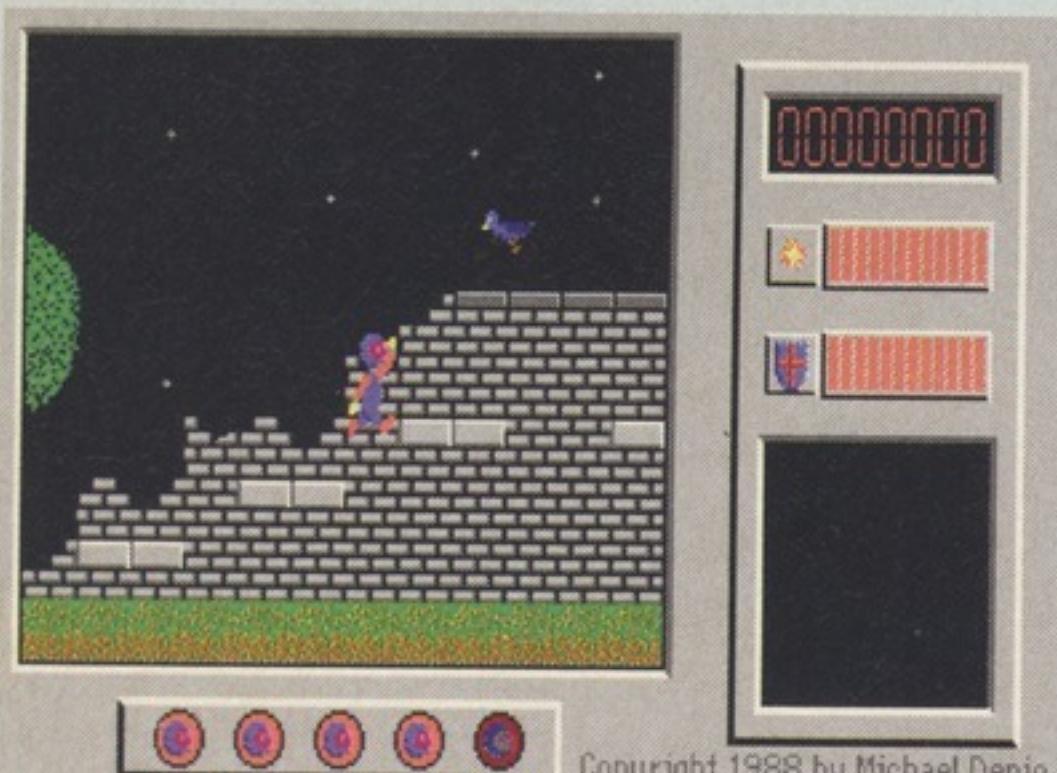
Now, go back to the A:\ drive and copy COMIC3.EXE across to the hard drive by typing: CD A:\PC\COMIC, then COPY COMIC3.EXE TO C:\COMIC.

## FLOPPY DISK INSTRUCTIONS

To copy it to another floppy disk, insert the Cover Disk and go to the A:\ drive (type A:\). To copy the file, enter CD A:\PC\COMIC and then type COPY COMIC3.EXE TO B:\. The computer will ask you to swap disks once, and the file will be copied.

NOTE: COMIC3.EXE is a self-extracting archive. This means that when you run it, it will decompress itself into a number of files. These will take up much more space than the original file did, which is why it had to be compacted it to fit on the disk, and is also the reason why you have to copy it to its own disk.

Once you have copied the game, type COMIC.EXE and the game will load. After seeing a text screen and redefining the control keys (if you want to, that is), press the space bar to start the game.



Copyright 1988 by Michael Denio

• Life isn't easy for Captain Comic: not only does he have to jump across platforms; he has to dodge the creatures in his way as well

## CONTROLS

*Captain Comic* is played from the keyboard.

The standard controls for the keyboard are: Cursor left = LEFT, Cursor right = RIGHT, Cursor up = UP, Cursor down = DOWN, Space = JUMP. To shoot a fireball press the Insert key, press Alt to open a door, and Caps Lock is used to teleport to another place on the screen. The Esc key can pause or quit the game, and the in-game sound can be turned on or off by pressing the F1 and F2 keys respectively.



- Able to leap tall platforms in a single bound - meet Captain Comic

## HOW TO PLAY

Guide Captain Comic through the scrolling platform levels. During your journey, you encounter many other different creatures, and contact with them steadily depletes your limited supply of energy.

As you go, you can pick up objects to help you fight the creatures, as well as other items which restore your energy levels.

You have five lives, and extra lives are awarded every 50,000 points.

To complete the game, all three stolen treasures have to be collected: a bag of rare gems, a sack of rare coins and a jewelled crown.

For more details about *Captain Comic*, read the documentation file included in the COMIC3.EXE archive; it's called COMIC.DOC and can be easily viewed by entering TYPE COMIC.DOC when you are in the COMIC directory on the disk that you copied the game to.

## SHAREWARE INFORMATION

*Captain Comic* is a Shareware program. So, if you like this program and find you play it a lot, you're obliged to send the author of the program a contribution - in this case US\$10 to \$20 - to thank them for their troubles and to enable them to program more quality creations.

Those who do become registered users will be able to receive the latest news on further programs featuring Captain Comic.

Send your Shareware contribution to: Michael A. Denio, 1420 W. Glen Ave #202, Peoria, IL 61614, USA.

## CANARY

*Canary* is a virus alarm program for the PC which detects changes to .EXE, .DAT and COMMAND.COM files.

The program works by checking itself, its documentation file and the COMMAND.COM file for changes in length or content. It uses a proprietary system that identifies where changes to files have been made on the disk, in order to help solve problems if viruses should infect your system.

The version of *Canary* on the Cover Disk is an evaluation copy of the program. This means that it basically works as the full version does, but occasionally prints a message reminding you to register the program.

## TO START THE PROGRAM

Go to the CANARY directory and copy CANARY.EXE to a blank formatted disk or a directory on your hard drive.

## HARD DRIVE INSTRUCTIONS

To make a directory on your hard drive, enter C:\ and then type MKDIR CANARY. This will create a directory called CANARY.

Now, go back to the A:\ drive and copy CANARY.EXE across to the hard drive by typing: CD A:\PC\CANARY, then XCOPY CANARY.EXE TO C:\CANARY.

## FLOPPY DISK INSTRUCTIONS

To copy it to another floppy disk, insert the Cover Disk and go to the A:\ drive (type A:\). To copy the file, enter CD A:\PC\CANARY and then type COPY CANARY.EXE TO B:\. The computer will ask you to swap disks, and once that is done, the file will be copied.

NOTE: CANARY.EXE is a self-extracting archive. This means that when you run it, it will decompress itself into a number of files. Overall these take up much more space than the original file did, which is why we had to compact it to fit on the Cover Disk; and is also the reason why you have to copy it to its own disk.

## DISK INFORMATION

PROGRAM: Captain Comic  
DIRECTORY: COMIC  
FILE(S): COMIC3.EXE

PROGRAM: Canary  
DIRECTORY: CANARY  
FILE(S): CANARY.EXE

Type GO.BAT to see the contents of the disk.

NOTE: MS-DOS must be loaded on your system before you use the Cover Disk.

*Captain Comic* requires a PC, XT or AT compatible machine equipped with an EGA display adapter and 256K of video memory.

## USING CANARY

To run *Canary*, type CANARY.EXE. The program will run and will automatically link itself to the COMMAND.COM file on your hard disk.

Basically, there is not much else you can do. The program's advantages include:

- *Canary* detects the effects, rather than the signature, of a virus, so the software does not have to be constantly updated to find new viruses.
- *Canary* is not memory-resident, and so does not take up memory. And since it needs to scan only a few files to keep track of what's going on, it takes up less processor time compared to other virus programs that scan all the files on a disk to match with a table of viruses, for instance.
- Because *Canary* will only sound an alarm if its data file or COMMAND.COM is changed, which is most likely to happen if a virus appears, so there won't be false alarms when other files or data is changed on the disk.

## SHAREWARE REGISTRATION

If you use *Canary* for more than 90 days, according to the principles of Shareware you are legally obliged to register as a user of the program.

Registration will entitle you to the full documentation for *Canary*, a copy of the latest version of the program and free support.

To register, send US\$19.95 (£12) to: Compass/New England, Post Office Box 117, Portsmouth, New Hampshire 03802-047, USA.

## PC BACK-UP COPY

Be warned that because the disk is a complicated format, some of these instructions could be a bit tricky.

1 If you've only got a floppy drive-based system, format at least one blank disk. Otherwise use your hard drive.

2 Write protect the original Express Cover Disk (with the notch open so you can see the hole through the disk).

3 Use the XCOPY command to make the backup. If you have only one floppy drive, load XCOPY from the system disk from drive A:\ with the /S option to copy the files across. So, to copy the files across type: XCOPY A:\PC\\*.\* B: /S. Then it is just a matter of swapping disks in and out of the drive until the Cover Disk is copied. Don't worry if you think you must have two drives - the XCOPY command will treat your single drive as both, or it will copy to the B:\ drive if, in fact, you do have two drives.

4 If you have a hard drive, put the Cover Disk in drive A:\, then type: XCOPY A:\PC\\*.\* C: /S to copy all the subdirectories to the hard drive.



# DESKTOP VIDEO

**The Macintosh is arguably the machine best suited to video work and points the way to its desktop future. Express takes a look at the pioneering work being done by Cambridge's Ellis Partners...**

For several years desktop video has been written about with the same maniacal fever that lauded the introduction of desktop publishing. But, as with DTP in the middle eighties, its commercial use in the current decade has been minimal.

However, a design group in Cambridge has been using a Macintosh-based system commercially for eight months now, fighting bravely and successfully to make a living from it. The Ellis Partners entered cautiously into DTV only when it had captured its first commission, a ten minute animated programme for Bayer Pharmaceuticals describing how the body's cardiovascular system worked. The company discovered that despite the constant hype over the last couple of years, desktop video production represented something of a challenge for the personal computer.

However, it felt from the beginning that DTV's future had a parallel with the history of desktop publishing, where all the machinery and skills of typography are delegated to a program running on the desktop. Back in 1986, when Ellis launched into DTP with similar bravado, the Mac was scorned and referred to as Mickey Mouse technology. Now of course, apart from typography and page layout, it handles far more: integration with database software, sophisticated type manipulation and colour separations.

Ellis would argue that DTV has a similar future. Previously, television animation has been produced using traditional techniques, but computers have been used for more than a decade to speed up the production of animated sequences, 'in-betweening' different frames to create movement. However, these dedicated machines have been complex, extremely expensive and strangely inflexible.

Ellis discovered that the MacIIfx – and some associated soft and hardware – meant that the production of these images could be handled very quickly by a designer, who for the first time could work in time as well as space. As with the popularisation of desktop publishing, video will no longer be an elite process in the hands of a few professionals, but a tool available to every businessman, academic or artist.

But is desktop video just a method of producing video quickly and cheaply? In a sense the answer must be yes, because the cost and speed of video production can be radically reduced. However, as DTV has developed it has become obvious that it delivers more facilities than were ever offered in the advertisements in the audio visual press: new 'real' objects could be constructed and new ways of seeing things experienced. Ellis found creative directions that simply never existed before, and incidentally discovered a real threat to the world of post-production.

## THE 5 WEEK, 10 MINUTE VIDEO

The first Ellis desktop video was ten and a half minutes long and took just five weeks to produce, thanks to the Mac interface and the integration of the various programs. Much of the time was naturally spent learning the various programs required. The nature of the material – it was a support video to a training programme on cardiovascular disease for pharmaceutical reps – meant that much of the visual material already existed.

These images, mostly technical illustrations, were scanned in by a JVC three chip video camera using the image capture facility of the NuVista card and then manipulated under *Adobe Photoshop* before being transferred to *Macromind Director* for animation. The simpler sequences were eventually downloaded in real-

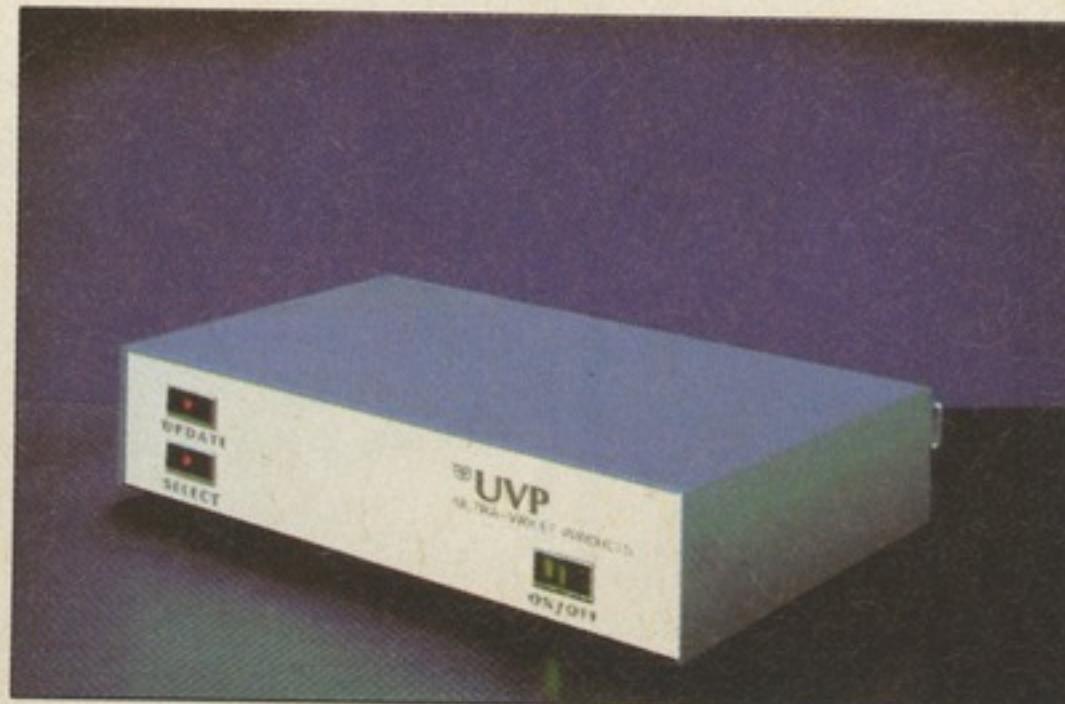
• A combination of *Adobe Photoshop* and *Macromind Director* on the Mac allows Ellis Partners to produce high-quality yet low-cost interactive training programs

time, but the more complex material in 32-bit colour had to be sent down frame-by-frame on to the Hi-band Umatic tape, using the Diaquest animation controller.

This was the only process that caused real problems. The machines were set downloading overnight, but when the material was viewed, dropouts were found on the tape. Later downloads on to Betacam video format proved more successful.

**DTV allows many expensive elements of video production to be handled within one computer**

From the first it was decided that the most pragmatic way of mixing visuals and sound was to record the soundtrack on DAT first and then to time the visual sequences to it, a technique which gives the video pace and has been used successfully ever since.



• After scanning in a real background, a prototype product can be drawn over the top

## THE LOW-COST VIDEO BROCHURE

Certainly desktop video can be an inexpensive way of producing video and one particular area in which radical cost-cutting is possible is the video brochure. By retaining all the action inside the computer, it is possible to avoid the expense of a live action crew and traditional post-production. The video is a linked series of still and animated graphics, with a separate soundtrack. The programme is downloaded directly on to VHS; in other words, true desktop production.

This process does mean, however, that the action is restricted to visuals which can be scanned into the computer and very short sequences of live action, routed through the machine. This 'moving slide show' technique is extremely useful for corporate presentations (moving slide shows) or in-store videos, and can cost very little indeed.

But DTV can help to reduce costs in traditional, broadcast-quality video production too. Previously, only companies with sumptuous budgets could afford to commission programmes to demonstrate or sell their products or services. A typical project involves writing a suitable script, organising sets or locations, the production of a storyboard, the hiring of actors, producers and technicians, the commissioning and production of music and soundtrack, live action direction and shooting and the graphic design and animation required for titles and diagrams.

As DTV develops, the technology will influence the processes of video production, forcing traditional techniques to change and become more accessible.

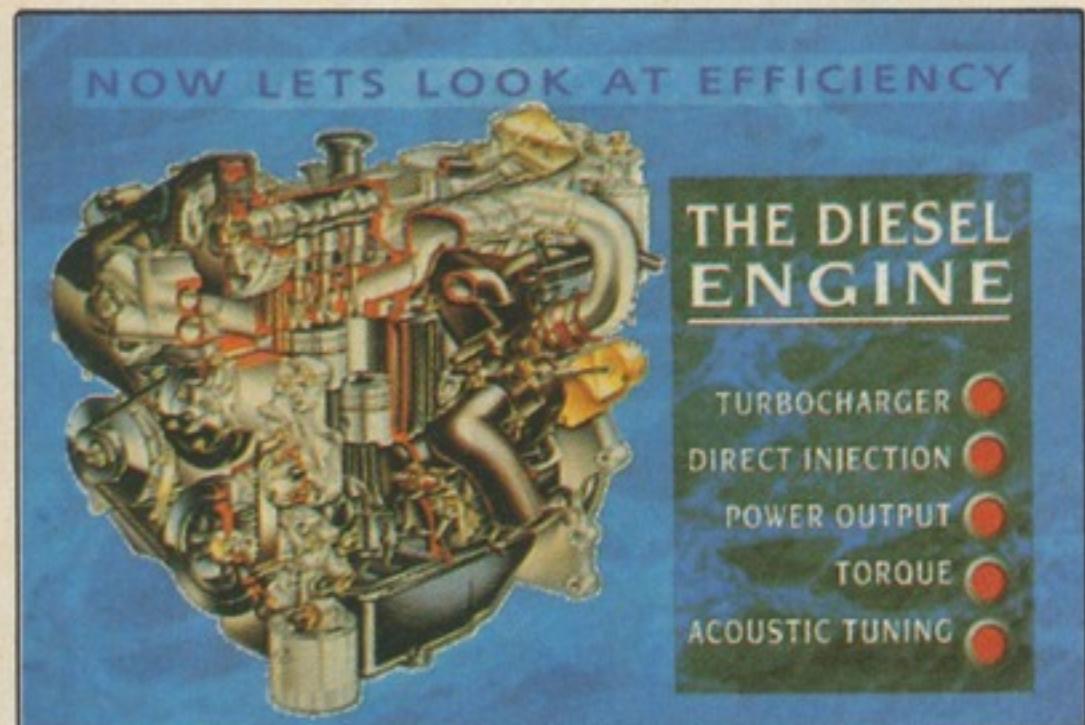
Now in 1991, DTV allows many of the expensive elements to be handled within the one computer. These processes include some of the special effects (such as flip and zoom), the titling and diagrams and the synchronisation of audio. However, it is in the automation of animated graphics, including 3D, that DTV really comes into its own. Three-dimensional hypothetical objects can be constructed and then made to change and move in hypothetical 3D environments.

# 0 COMES OF AGE

## ANIMATED ACTION!

This radical reduction in the cost of animated graphics (in most cases one fifth and in some up to a sixtieth!) made the normal costs of live action and post production seem out of step to Ellis.

IT tackled the dilemma by forming a relationship with a conveniently-placed local educational institution with a fully-equipped video studio, post-production



• Images scanned in using a rostrum-based JVC video camera are captured by a 32-bit NuVista frame grabbing board and imported into Photoshop for fine tuning. The results speak for themselves

facility and a subsidised brief to 'go forth and be commercial'. Anglia Polytechnic's media production department has developed a comprehensive video production facility: a three camera, fully-rigged studio, and a three machine Hi-band Umatic editing suite complete with effects and all facilities.

## POST PRODUCTION

Post production is the compilation of sequences on video tape, using cuts, mixes, fades and dissolves. Now many of the effects, transitions and titling can be handled inside the computer. The future implications for this must be worrying for people involved in post-production. Apart from transitions and effects actually handled inside the computer, the Mac has the ability to control the time code of any format of video tape as the images pass from one editing machine to another.

Post production has traditionally relied upon great technical frame control, and this is possible on the Mac, but the machine can also handle most of the standard transitions, especially between graphic elements. Ellis still uses traditional editing techniques but is developing its technology to handle all post-production on the Mac. Keeping the amount of expensive post-production down, whether it is on or off-line, makes commercial and creative sense.

## INTEGRATION WITH PUBLISHING

Ellis' background is the production of high-quality printed material and one of the primary motivations for taking up desktop video was the need to include moving imagery or processes in marketing or training projects. Because of the integration of all the programs on the Mac, sequences of animation can be extracted and single frames sent to a laser printer for checking. But these same images can also be put into a page layout program and colour-separated for full-colour printing.

## THE FUTURE

But what use is video production in a sales-hungry, budget-cutting economy? As far as marketing is concerned, video lacks the immediacy of a full-colour brochure or a well-conceived, designed and printed/produced artifact.

A decade ago it seemed that the Sony Walkman was going to change all that by appearing on every executive's desk. It didn't quite come off, somehow the critical mass of acceptance was not reached. Why, we will never know but perhaps video suffers from the

same problem as audio: the reluctance of an audience to put a cassette into a machine and sit and watch (or listen to) it. It will take a video screen in every piece of office furniture or perhaps the improvement of the IBM visual standard to change matters.

The 'video brochure' is financially viable, however, especially when a client's customers are abroad. (It is more sensible to produce and send an exciting



promotional video than send sales or technical staff on a long distance visit.) The process can explain complicated messages in an entertaining way or even make 'dull' products seem exciting.

Applications also include 'top 'n' tailing' or revamping existing video footage, giving it a new lease of life for relatively little extra cost.

Another growing market for desktop video production is the newly-freed world of local broadcasting. Just like the States, the UK is witnessing a revolution in broadcasting techniques and a decentralisation of production. Cable and satellite networks are springing up everywhere, but currently there is something of a monopoly in the supply of high quality programmes: cable networks buy most of their

material from the satellite producers and the traditional broadcasting networks.

As television becomes decentralised, there will be a need for local programming at relatively low cost, as with local radio. In the States, every local television company produces its own links, its own local weather forecasts, its news and its own local interest programmes. All of these can be handled or enhanced with desktop video.

## INTERACTIVE MULTIMEDIA

With the advent of DTV, Ellis has found itself becoming involved in a number of other projects, loosely described as multimedia. One area is the interactive encyclopaedia or learning module, an application of the same equipment, software and techniques. The technology is growing in importance as a teaching, educational or reference tool, but has been stunted in its growth because of the turbulent economic times.

Essentially, programs exist to allow the computer – with the use of large scale storage devices such as CD ROMs or CDI – to store huge amounts of information in a database format and display them in an exciting way so that the student can travel through a logically-organised route; the technique is ideal for museums, training, education and technical documentation.

Ellis has developed the interactive programs available on the Mac – Director and Hypercard – to promote these facilities. The image capture capability of the Nuvista board and the JVC camera means that full-colour imagery can be digested in seconds.

The Director program has only been developed for the Mac, but as Ellis has found, most users have decided on the IBM standard, so Macromind has released a Director 'player' which runs on IBM compatibles. This means that interactive programmes authored on the Mac can be translated for use on the PC. Ellis has purchased a top-spec IBM to translate its material and to work with some of the simpler interactive programs developed explicitly for the PC. ■

## A MACINTOSH-BASED DTV CONFIGURATION

There are three major technical developments which have transformed desktop video for Ellis from a toy into a professional money-earning system. These are the advent of the MacIffx, with just enough processing power to handle most video images, the Truevision NuVista 32-bit colour board which provides top-quality colour imagery, and the Director program from Macromind, which is the definitive idiot-video program.

### MAC MAKES IT EASY

The MacIffx has 8Mb of on-board RAM and an 80Mb SCSI disk. Inside is a 32-bit Truevision NuVista colour card (with image capture and genlock capabilities) and a RasterOps 32-bit colour card to run the working screen, a standard 12-inch Apple monitor. Also linked are a Taxan 14-inch monitor, which can display interlaced or PAL signals and, through the items mentioned below, a high-quality VHS video player/monitor for proofing.

Linking up the computer to the video elements is a Vidi/O box, a PAL encoder/decoder. A JVC three-chip colour video rostrum camera sits to one side, ready to scan in images. Also plumbed in is a Syquest portable hard disk drive, for loading and saving large files and transporting them to bureaus or customers on 45Mb 'cartridges'.

### IMAGE WATCHERS

Very often the images that Ellis needs to use as a reference material or as a starting point are printed or photographic matter and these are scanned into the system using the image capture programme

available as firmware with the NuVista card. The JVC KY-F30, often used by television companies as a caption grabber is ideal for scanning colour images, but for more detailed line and general monochrome work, Ellis uses bureaus with flat-bed scanners.

### 3D SOFTWARE SUITE

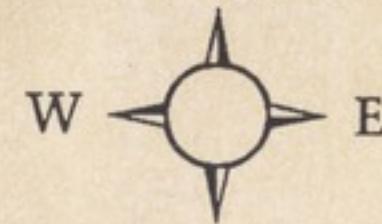
Ellis uses a suite of basic software and has learnt to exploit these, rather than work with more risky programs. These standard packages include *Swivel 3D*, *Freehand 3*, *Photoshop*, *PixelPaint*, *Director* and *Accelerator*.

Much use is made of *Swivel 3D* to produce logos and other three-dimensional objects. It creates 3D objects using wire frames in three views, cloaking them with a surface, smoothing and then giving them a light source, before 'tweening' their movements, 'camera angles', orientation and direction. These automatically-tweened movements are saved as a series of PICS (series of PICT) files which are then pulled into *MacroMind Director*.

*Freehand* is still used to construct pictures before converting to *Photoshop* or *PixelPaint* with their more sophisticated paint capabilities.

Very often, the same images from an animated movie are needed in print, so a picture is grabbed from *Photoshop* or *Director* and loaded into *Quark Xpress 3*; so far the best page layout program for colour separations. This can result in phenomenal cost savings, but although Ellis has found the separations suitable for producing advertisement film, where the resolution required is 150 lines per inch; the machine still has problems with the 300 lpi required for quality colour printing.

# Capital North Ltd.



Present

A 16-Bit

## COMPUTER EXHIBITION EXTRAVAGANZA

at the Leeds University Exhibition Centre, Calverley Street, Leeds 2.

**Friday, 13th September, 10 a.m.-6 p.m.**

**Saturday, 14th September, 9 a.m.-8 p.m.**

**Sunday, 15th September, 10 a.m.-4 p.m.**

**BE SMART. BE THERE!**

PLUS: Bring your  
spare computer  
equipment to sell at the  
Bring and Buy Counter.  
10% Commission.

See the latest  
software &  
hardware  
Thousands of  
bargains.

★ Car parking for 1200 ★ Refreshments available ★

Stand Enquiries: **Tel./Fax 0532 677657/610997**

## COMPUTER REPAIRS AND UPGRADES



● **COMMODORE** ● **ATARI** ● **AMSTRAD** ● **SINCLAIR** ● **IBM** ●

- Commodore registered, Amstrad authorised
- Fixed prices on many machines.
- Most computers should be repaired 24hrs from booking in
- Over 3500 square foot engineering complex at your disposal
- First class technical advice available from over 20 technicians/engineers

Amiga 500 ..... £44.95 → (*£25 additional premium if disk drive unit or keyboard are not repairable and require complete replacement*)

Atari 520 STFM ..... £15.00 → (*Diagnostic fee plus quote (Typically £45.00)*)

Commodore 64 ..... £29.00

Spectrum 48K ..... £21.00

Spectrum +2 ..... £29.00

Spectrum +3 ..... £35.00

Spectrum 128K ..... £24.00

Amstrad 464 ..... £32.00

Amstrad 6128 ..... £36.00

IBM/Clone ..... P.O.A.

Other Machines ..... P.O.A.

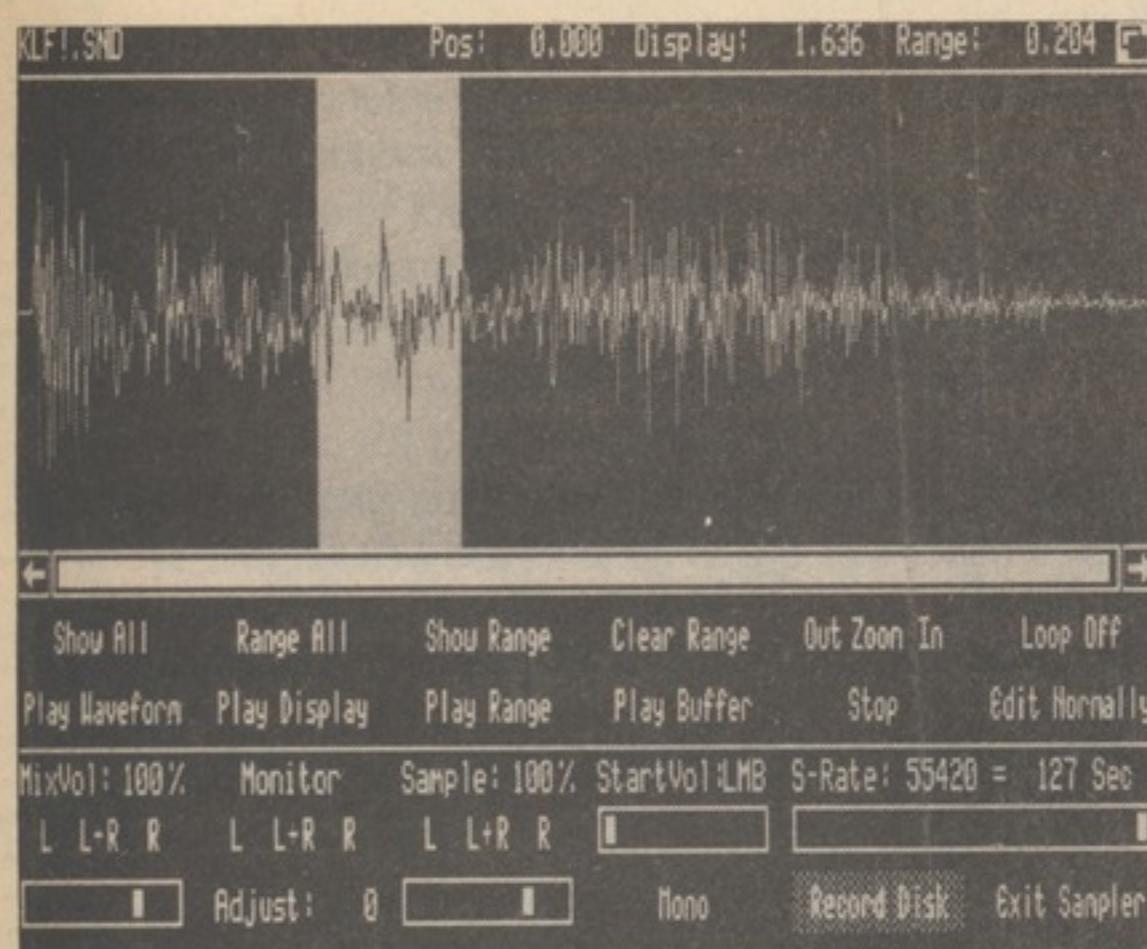
### PREMIUM SERVICE

*To utilise our premium service simply send or hand deliver your machine to our workshop address below, enclosing a fault description and daytime telephone number plus payment, and we will do the rest. Please add £5.00 if you require 24hr to your door courier or else contract parcel post will be used.*

(W.T.S. reserve the right to refuse machines which are in our opinion beyond economic repair - Handling charge may be applicable)

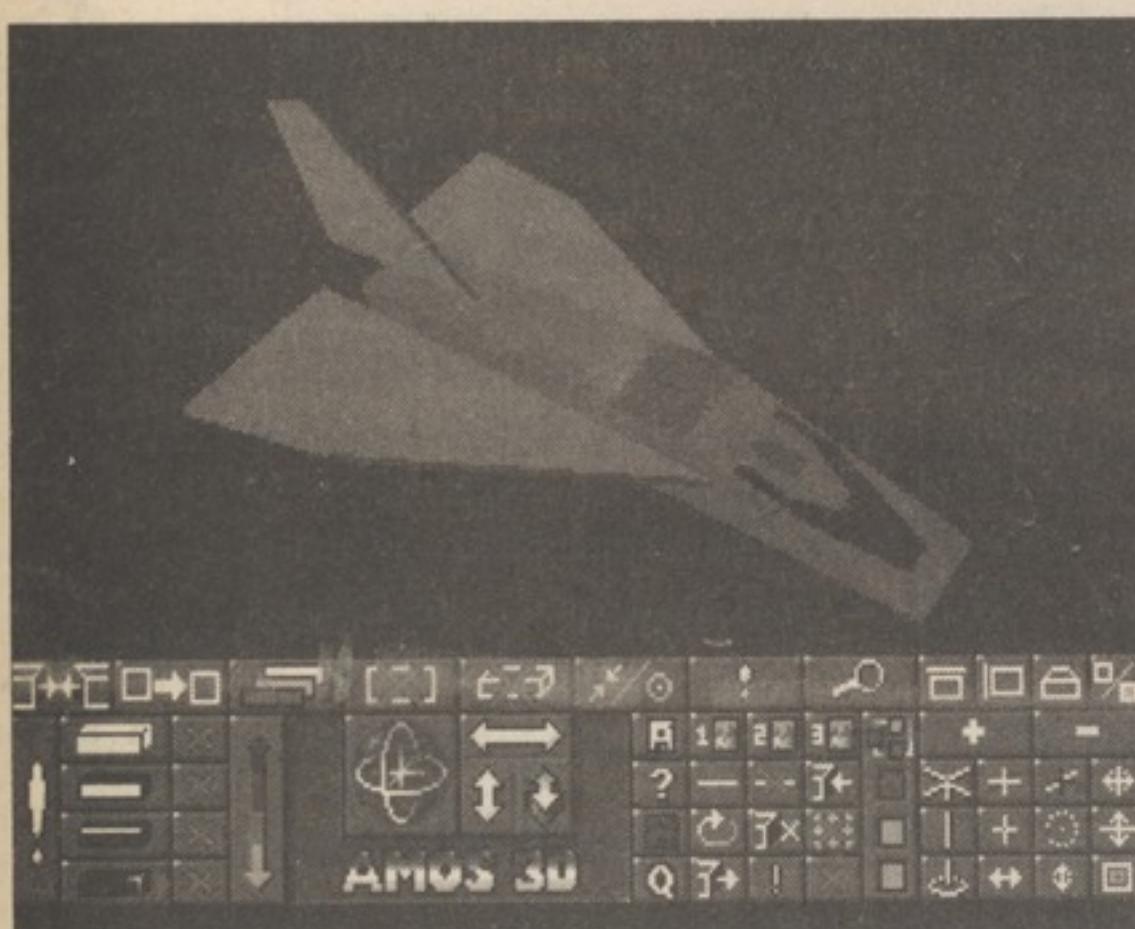
**TEL: 0582 491949 (4 lines)**

**W.T.S. ELECTRONICS LTD, Chaul End Lane, Luton, Beds., LU4 8EZ.**



- Audition 4's powerful editing and easy to use interface can improve your samples

**PRODUCT:** Audition 4  
**COMPATIBILITY:** Amiga  
**FROM:** HE Marketing  
**CONTACT:** 0753 686000



- Add stylish 3D graphics to your AMOS programs with AMOS 3D

**PRODUCT:** Amos 3D  
**COMPATIBILITY:** Amiga  
**FROM:** Europress Software  
**CONTACT:** 0625 859333



- Listen to the sound of your own voice through your IBM speakers with SoftSpeak II+

**PRODUCT:** SoftSpeak II+  
**COMPATIBILITY:** PC  
**FROM:** Quantech  
**CONTACT:** 091 2280513

Like DPaint's dominance of the paint package market, Oxxi/Aegis' AudioMaster has become the industry standard package for sampling sounds on the Amiga. With its powerful editing features and simple to use interface, AudioMaster has remained the choice for grabbing high quality samples on the Amiga.

However, Oxxi's market monopoly may be brought to an end with the release of Audition 4 from US-based SunRize Industries. Like AudioMaster, Audition 4 doesn't come with its own sampler. Most samplers do come with their own editors, so packages like Audition 4 have to be something special if they wish to compete.

Audition 4 supports a wide range of samplers including SunRize's own range of Perfect Sound units and Oxxi's recently released SoundMaster. If you own a sampler that supports it, Audition 4 can sample in both mono and stereo with sampling rates of up to 55 KHz. Obviously such rates eat large amounts of RAM, so sampling time is reduced to a couple of seconds when Audition 4 is used on an unexpanded Amiga.

Editing is impressive. There's the usual cut, copy and paste, plus an impressive realtime zoom which works a bit like the zoom lens on a camera. Extra editing features include echos, delays, smoothing, waveform tuning, fade, filter, lift bass, lift treble, flange. All these are performed at an impressive rate – certainly

much faster than similar functions within AudioMaster.

Audition 4 is also the first Amiga sampler to support direct to disk recording, although this is limited to its own custom floppy disk format. It would have been nice to have been able to record direct to hard disk, allowing for digital mastering. Audition 4 is a solid, reliable and powerful sample editor that matches AudioMaster 3 feature for feature. In all, Audition 4 comes highly recommended – especially when you consider it is £30 cheaper than AudioMaster! ■

## HOW DOES IT RATE?

### FOR

- ▲ Supports a wide range of samplers
- ▲ Very powerful editing functions
- ▲ Easy to use

### AGAINST

- ▼ Doesn't come with its own sampler
- ▼ Won't sample direct to hard disk

**COST:** £49.95 **VALUE:** Super

**COMPETITION:** Audiomaster

3D graphics programming has always been something that most home users could only dream about, but all that has changed with the release of AMOS 3D from Europress Software. It's a powerful extension to Europress' acclaimed AMOS BASIC that will allow even complete novices to enter the world of 3D graphics with ease.

The AMOS 3D package consists of an AMOS language extension and a powerful 3D object editor. The heart of AMOS 3D is OM (Object Modeller), a sophisticated, yet easy to use, utility which is used to create all the 3D objects which will inhabit your 3D universe. All objects are created from a set of five basic primitives which must be pieced together to form the objects you require. These range from flat faces to a cube and a pyramid. The primitives are limited, but they can be glued together to form more complex objects. In turn, individual primitives or objects can be manipulated in many ways, including pulling out points or faces.

Another powerful facility is Surface Detailing, which allows you to apply a user-defined pattern to any face. This can give the illusion of a far more complex object. The language extension contains no fewer than 30 new commands to the already extensive AMOS command set. These have been specially designed to allow 3D objects to be manipulated in true 3D, taking much of the

drudgery out of maintaining a 3D display.

The speed of AMOS 3D's 3D system is all important and thankfully the package isn't let down in this department. It's perhaps not as smooth as something like the 3D systems used with such games as *StarGlider 2* and *Mercenary*, but it's impressive nonetheless. If you're an AMOS user, then you'd be a fool to ignore AMOS 3D. If you don't own AMOS and would like to get in on the act, then now is the time to do so. In all, AMOS 3D comes highly recommended. ■

## VALUE FOR MONEY?

### FOR

- ▲ Object editor is easy to use
- ▲ Language extension takes out the hard work of working in 3D

### AGAINST

- ▼ The complexity of objects is limited to only primitives

**COST:** £34.99 **VALUE:** Good

**COMPETITION:** None known

Many PC owners have looked at Amigas with envy. Not only do Amiga displays scroll better, but they talk nearly as clear as a human. A PC could never do this. Well that's what too many Amiga owners will lead you to believe.

A VGA card will make your computer scroll with the best of them; but speech, is a different matter. One of the major problems with speech on a PC is that of the IBM internal speaker and its driver. So you would think ripping it out was the only option. In the past that may well have been true, but as there are people out there that are pretty nifty when it comes to programming, the 'wrecking the speaker' option no longer applies.

SoftSpeak II+ is a purely software based sound sampler and play-back facility. This program, with the aid of the microphone provided, can record any sound that you feed it. But it doesn't stop there, SoftSpeak II+ can compile a recorded sound sample so that it becomes an EXE file. This means that you can include this file in your batch files and alike. For example, when running a program, the computer can tell you what program you are running.

The joy of using this program has to be the GUI. Although to the novice it may seem a little daunting, it soon becomes apparent what each icon does. Add to this the excellent on-line help facility and well structured

manual, and the package just seems to get better.

After sampling a voice a few times the quality of the sound output generated from the IBM internal speaker was excellent.

This is a gizmo supreme for any programmer. The applications that you could put this to are endless, it just a matter of whether you want to spend the money. ■

## WORTH EXTRA DOSH?

### FOR

- ▲ Extremely easy to use
- ▲ Great sound performance

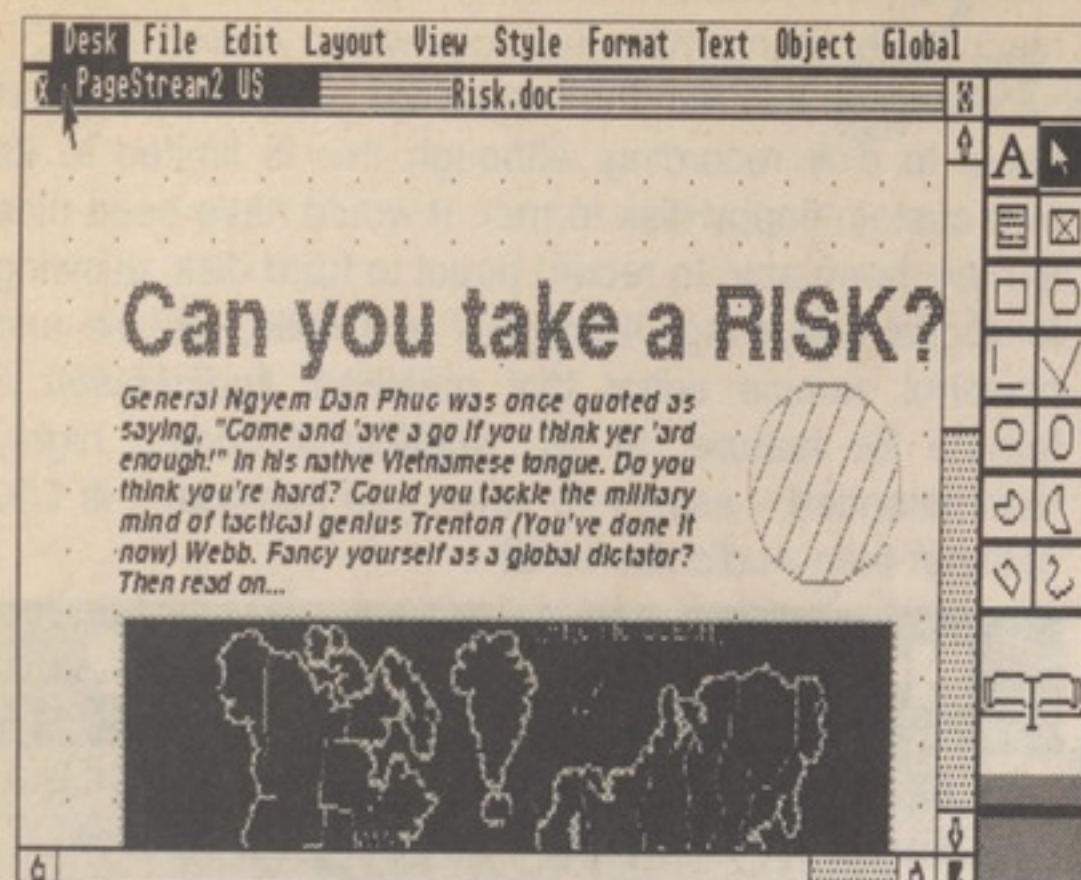
### AGAINST

- ▼ Overpriced (with microphone kit)

**COST:** £59.90 software only  
**£139.90 with headset/ Input unit**

**VALUE:** Good

**COMPETITION:** None known



- PageStream 2.1 – its vast range of new features are well worth upgrading for

**PRODUCT:** PageStream 2.1  
**COMPATIBILITY:** ST  
**FROM:** Soft-Logik/Silica  
**CONTACT:** 081-309 1111

**P**ageStream finally gets its upgrade in the shape of PageStream 2.1. Physically, it's similar to its earlier (and troubled) incarnation, but underneath there are many differences. For starters, the range of useable fonts has expanded astronomically. It's now possible to use AFGA Compugraphic Intellifonts. These are hinted outline fonts, one of the most popular non-PostScript formats. Three families are supplied –Times, Truimvirate and Garamond, all in various styles.

But PostScript is not overlooked – the Compugraphic fonts have PostScript versions supplied with them, while standard PostScript Type 1 can be used on PostScript and non-PostScript printers. There are eight PageStream format fonts to play with too.

PageStream 2.1's other new features include an increased library of printer drivers and import export modules. 218 printers are supported using re-useable drivers. 20 picture file formats can be loaded, including Degas, Encapsulated PostScript (EPS) and Adobe Illustrator files. Five text file types can be flowed on to PageStream grids, including 1stWord and WordPerfect.

Major improvements have been made in the use of on-screen fonts and now PageStream's display is on a par with Calamus. The font rescaling routines are now much more legible, even in medium resolution.

Other improvements concern the use of colour. While the screen colours are limited by your monitor,

the printable colours have been extended. Full 4-colour separation and the use of Pantone palettes is supported. Other enhancements include the loading speed, font management and object rotation functions. But some functions, such as font-caching, only take effect when you have 2Mb or more of RAM installed.

If you're thinking of investing in low-cost DTP, PageStream 2.1 is good value and it's capable of fine work. If you're upgrading from PageStream 1, it feels like a minor task but its benefits are well worth it. ■

## IS IT WORTH BUYING?

### FOR

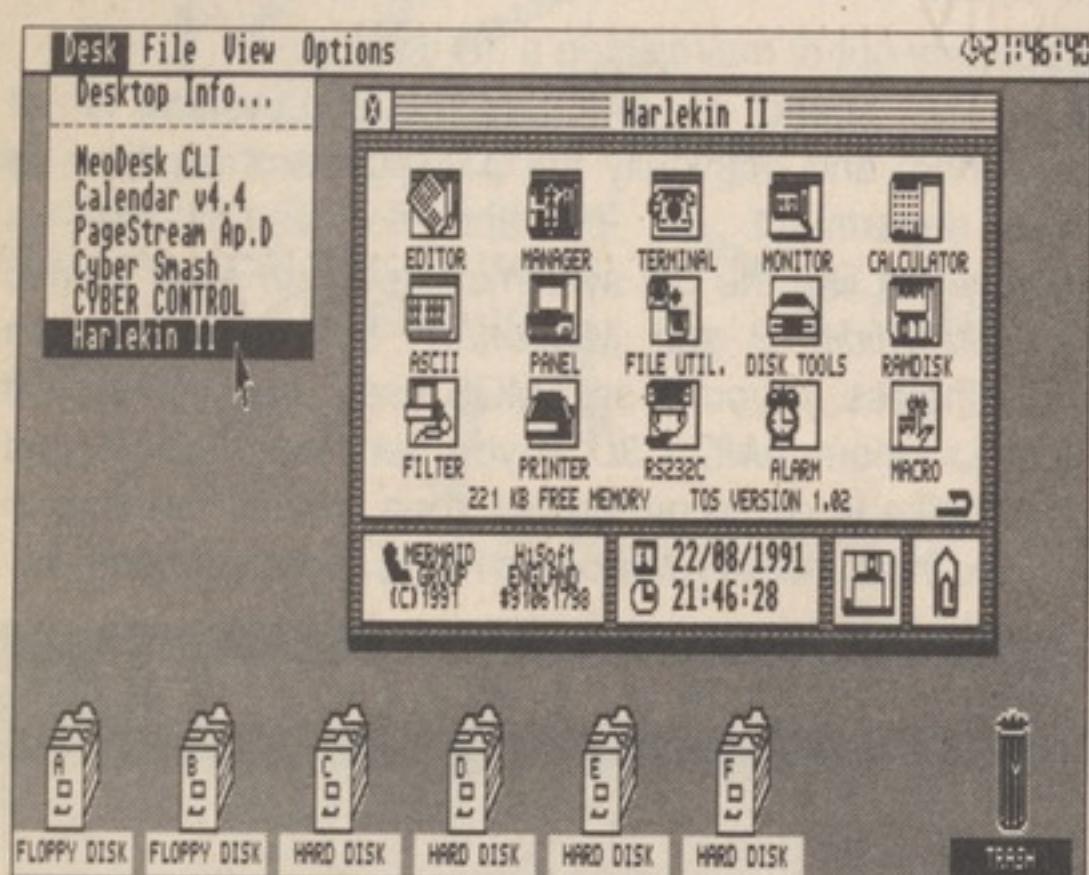
- ▲ Good value for money
- ▲ Excellent manual
- ▲ Vastly improved screen fonts

### AGAINST

- ▼ WP editing is slow
- ▼ Some macro functions are awkward

**COST:** £199.95 **VALUE:** Best buy

**COMPETITION:** Calamus, Timeworks



- Tucked neatly into Harlekin 2 are 15 immediately accessible, often-used utilities

**PRODUCT:** Harlekin 2  
**COMPATIBILITY:** ST  
**FROM:** Mermaid Group/HiSoft  
**CONTACT:** 0525 718181

**H**arlekin, the multi-faceted desk accessory, gets a facelift in this second version. Useful functions are neatly packed into one auto-loaded accessory and there are 15 icons to access functions.

The text editor is a word processor which creates automatic backups and enables you to search and replace text. The Harlekin Manager is a day-to-day database. You can store events here to organise your time. Filtering commands display and print specific types of event from hour, day, month or year grids.

The terminal program enables you to connect via modem directly to a host computer with a capture buffer that enables re-reading off-line using the text editor.

Harlekin 2's macro processor strings together keyboard sequences reducing them to one keypress. Macros can be auto-loaded when Harlekin boots.

A group of file utilities enables you to copy, rename, move and delete files. The disk tools copy and format disks using a variety of disk formats and sector lengths. There's a reset-proof RAM disk which can be auto loaded complete with contents.

Harlekin's control panel replaces the standard Atari control panel. Here you can set the mouse speed, keyboard repeat rate or edit and use screen fonts and change keyboard layout.

Harlekin's newest feature is the use of HPG

modules which can be appended to the main program. Six are supplied for converting old Harlekin scrapbook files, editing icons, changing language, re-assigning memory distribution, defining sorting order and changing the vectors used by Harlekin to maintain compatibility with other programs and accessories.

Now it's possible to integrate Harlekin into your working environment, regardless of the other programs you use. In fact many programs are made redundant by Harlekin, reducing the accessories you need to load. Well worth investing in, as it will save you time, frustration and effort and is good value for money. ■

## HOW DOES IT RATE?

### FOR

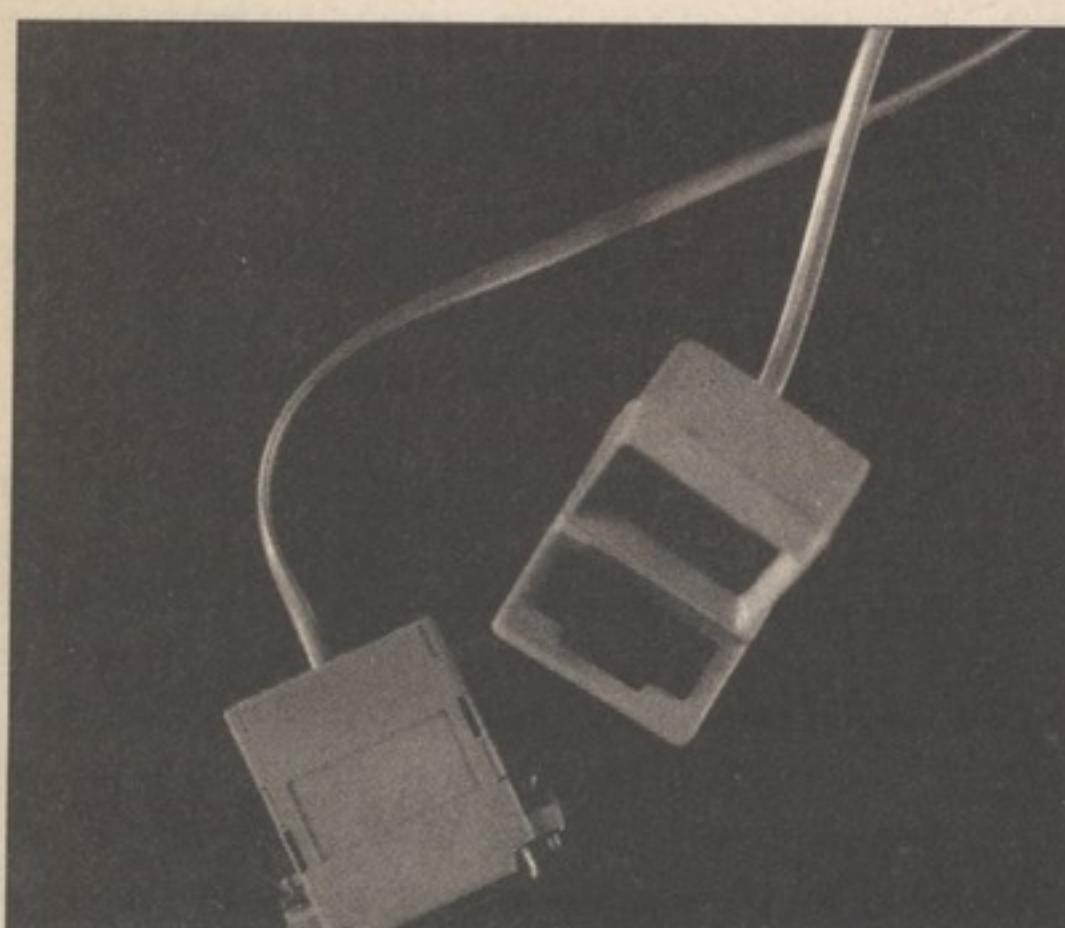
- ▲ Absolutely packed with features
- ▲ Works on all STs

### AGAINST

- ▼ Won't work in low resolution

**COST:** £59.95 **VALUE:** Best buy

**COMPETITION:** None known



- Eye-Gard keeps an eye on your PC, sounding an alarm if an intruder tries to tamper with it

**PRODUCT:** Eye-Gard  
**COMPATIBILITY:** PC  
**FROM:** Focus Research  
**CONTACT:** 071-839 4572 8608

**S**afeguarding data on a personal computer is a serious business. And when things get serious, they get boring. That's where Eye-Gard from Focus Research comes in to save your sense of humour.

Once Eye-Gard is installed on the a PC, it will display a screen of your choice when not being used. This could tell people where to find you, or just display something down-right daft. But should a hacker, thief or the guy from the next office sit down at this computer, alarm bells ring and a stupid screen miraculously appears.

Eye-Gard is essentially a light sensor and supporting software that monitors the lighting level in front of the PC. When someone passes in front of the sensor, the light received varies and triggers the alarm and screen change. Once triggered, the computer can only be operated again after typing a password known only to the legitimate user.

The sensor is cunningly disguised as a miniature plastic PC, to be stuck in a convenient place. But the real fun is in the screens to be designed. All of the display screens are in a standard PCX format, so with a little imagination and access to the likes of Windows, silly, ridiculous or just plain insane pictures and messages can be displayed.

Although this could be seen as a serious security product, Focus has seen fit not to sell it this way. Quite right to, as this could never be used as one efficiently. Should your PC be located where people are continually passing by, the PC would be ringing and flashing all day. And what if the PC is placed in a room that has a changing light level?

If you're looking for a serious PC protection product, look again. However, should you be looking for a gizmo that will raise a few smiles, get yourself an Eye-Gard. ■

## IS IT WORTH BUYING?

### FOR

- ▲ Stops other people using your machine casually
- ▲ Entertainment value

### AGAINST

- ▼ Cannot be used for 'serious' security

**COST:** £19.99 **VALUE:** Good

**COMPETITION:** None known

4-colour  
allettes is  
e loading  
unctions.  
only take  
stalled.  
ost DTP,  
le of fine  
it, it feels  
it. ■

MediaVALUE

# SUMMER SPECIALS

M  
V

## SPECIAL OFFER DISKS PLUS BOX OFFER

10 3.5" DSDD disks + library case .....	£4.50
10 3.5" DSHD disks + library case .....	£8.50
10 5.25" DSDD disks + library case .....	£3.00
10 5.25" DSHD disks + library case .....	£4.50

100 3.5" DSDD disks + 120 cap storage box	£38.00
100 5.25" DSDD disks + 110 cap storage box	£28.00

## BULK DISKS STORAGE BOXES

### 3.5" DSDD

	10	25	50	100
3.5" DSDD	38p	37p	35p	33p
3.5" DSHD	87p	87p	87p	87p

3.5" DSDD Sony bulk  
40p per disk minimum quantity 10 disks.

3.5" 40 capacity .....	£4.50
3.5" 80 capacity .....	£5.50
3.5" 120 capacity .....	£6.50

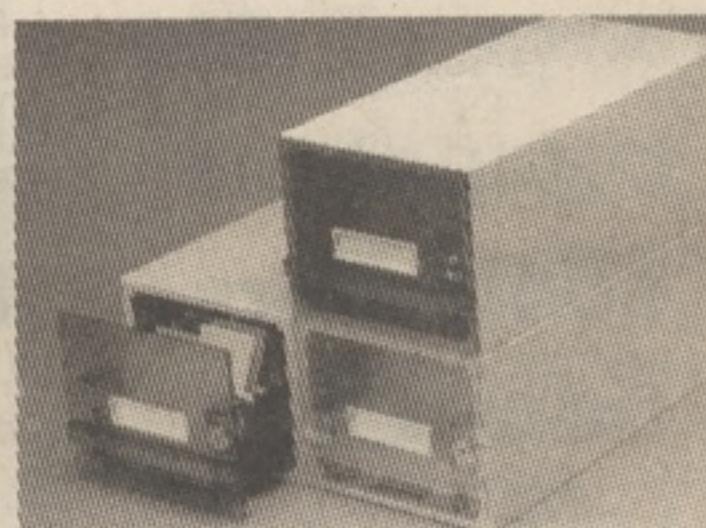
### LIBRARY CASES

10 capacity .....	£1.05
3" disks .....	each £1.60
Amstrad 8256 ribbons .....	£2.50

## BANX BOXES

Great space saver holds approximately 80 disks. Can be stacked horizontally or vertically.

One box .....	£9.00
Two or more boxes .....	£8.00



## LABELS

3.5" or 5.25" 100 labels .....	£1.50
1000 labels .....	£8.50
3.5" tractor fed .....	per 100 £1.50
	per 1000 £8.50

## BRANDED SONY SPECIAL OFFER

20 branded Sony disks in a sturdy plastic case £12.00 per box

### SPECIAL ACCESSORY PACK OFFER

1 mouse mat, 1 mouse pocket and 1 cleaning kit  
(state size 3.5 or 5.25)  
**£5.00 per pack**

Call in and see our products on display in  
our showroom. Monday - Friday 9.30 - 5pm.  
Saturday 10am - 4pm.

All our prices include VAT. Prices subject to change without notice. Education and Government orders welcome. All 3.5" disks come with labels. Call now for our price list. We stock 5.25" disks and boxes.

Telephone: (0753) 833555 Fax: (0753) 832394  
We offer a no quibble replacement  
money back guarantee.



## ACCESSORIES

3.5" disk cleaner + fluid .....	each £1.95
3" disk cleaner + fluid .....	£2.50
5.25" disk cleaner fluid .....	£1.95
Mouse mat .....	£2.00
Mouse house .....	£1.95
Atari + Amiga keyboard covers .....	each £3.00



To: MediaVALUE  
Dept NCE 5/09  
The Business Centre  
Vansittart Estate, Windsor,  
Berkshire, SL4 1SE.

Tel: (0753) 833555  
Fax: (0753) 832394

I enclose a cheque/PO for .....

Credit Card No: .....

Expiry Date: .....

Signature .....

Quantity	Description	Price	Total

Delivery charges: UK only £2.75  
Next day delivery £10.00 (UK) only

Delivery .....

Name .....

Address .....

Postcode .....

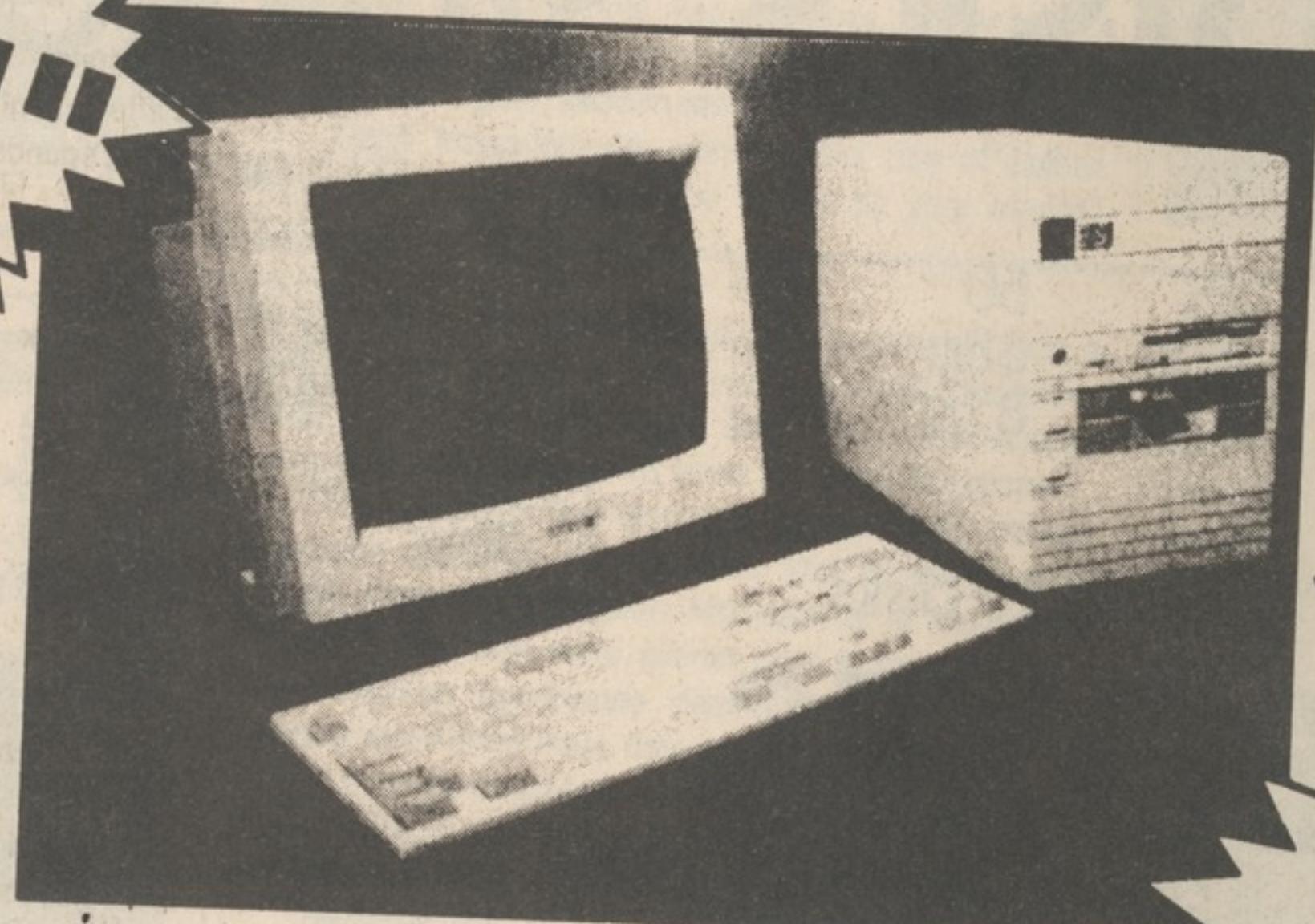
Telephone .....

E.&O.E.

# "WHAT!!! PC TOWER SYSTEMS from only £399 + VAT"

"YES!!!"

Vanitec Data Services Ltd can offer a complete range of IBM compatible computers from £399 + VAT and can include 1 years on site maintenance and hardware installation by our own engineering team



All our systems are fully IBM compatible and completely upgradeable throughout the whole pc range. phone

*Vanitec*  
DATA SERVICES LTD

"NOW"



**YES!!! Vanitec Data  
Services Ltd**



● TEL: 0249 448 777 ●  
● FAX: 0249 448 765 ●

# EXPRESS MAIL

Protection for PD users, services for STE users, software copying - what's all the fuss about? pen-pal proposals, virtual reality on TV? Haydn listens to your views and adds a few ideas of his own...

## Crack This...

Why is there so much paranoia about copy prevention?

1) Programs on tape can easily be copied tape to tape, so software houses only really have two options there, don't sell tapes or don't complain when they get copied.

2) Programs on disk can be copied by using software. Some are more difficult than others, but copiers do exist. I never use the original disk of any program in case I corrupt it. The only program I have been unable to backup is *DB1* by Cobrahsoft, but I am sure that Cobrahsoft knows how to back that one up. Therefore others, more expert than myself, would be able to work it out.

3) Programs on cartridge are usually too expensive or impractical for software houses and their customers alike.

4) Any other media. To run a program you have to load it into the computer's RAM. If this can be done then the data can be copied.

Cobrahsoft has partially solved these problems by forcing the user to insert the original disk at a crucial stage in the program, effectively disabling it unless the original disk is available:

The disk cannot be copied by normal means because it shows

corruption on the first track. The program itself can be copied easily but will not load unless the original disk is in the machine. Magic buttons don't work because the program configures the ROM/RAM pages in a non-standard way.

It doesn't matter too much if you can't back up games. It doesn't really matter if you can't zap your favourite aliens. Serious software is a different matter. For example, I regularly use CP/M. If my boot disk became corrupted and I hadn't got a back up then about 90 per cent of my programs and files would be useless even though I have backed them up. Obviously the software house encouraged me to make a copy and tuck the original safely away.

Neil Morgan via Aspects

**BACKING UP** 'serious software' is always the bug-bear in the copy-protection debate isn't it? It seems to me that on buying such software you should be able to do just that. I still think the solution Apple's developers are proposing is the best I've heard for a while, though. This involves coding the application in such a way that if it is copied to more than one hard drive or floppy, the new version progressively slows down to the point where it's unusable. This removes the need for any master disks, manual checks and code-wheels and just lets you get on with job quickly. Or not so quickly depending on whether you're a pirate or not.

## And this...

In NCE issue 145, Roy Chambers claims that he wrote to 30 or so PD companies suggesting controls to protect the user. We, for one, did not receive a letter. While I appreciate that he would have expected a reply, it is after all only polite to reply to letters. It sounds like he had only thought of the idea of controls and not on what type or how to implement them.

We get rather a lot of 'junk mail' of this type and if we answered all of them we would never be able to satisfy our paying customers. We would probably go bust by spending too much on postage as well.

Earlier this year Paradise contacted most of the Budgie licence holders to discuss such a body. After all ideas had been examined it was decided by all parties involved that the cost of the idea was far too high and the controls needed were impractical. The idea was therefore dropped.

If anyone does come up with a practical idea then Paradise will be quite happy to support it. I would imagine most Budgie dealers would too. In the meantime a good guide to a reasonable library is if it holds a Budgie Dealers Licence. Budgies don't give them out to any Tom, Dick or PDL. While not a

solution, this could well help protect users.

Ian Slater, Paradise PDL, Brighton,

**PERHAPS THIS** kind of ad hoc solution is the way forward as I can well see costs and impracticalities making a straightforward regulatory body a waste of time and money. I'd also like to take this opportunity to stress that 99 per cent of PD libraries are above board.

## Porn again



I am writing on the subject of Computer Pornography. Everybody says "Disgusting!", "Filth" and "It should be banned". Who the hell do they think they are to tell others what they should and shouldn't do? England is a free country! (err...sorry - H.F.W)

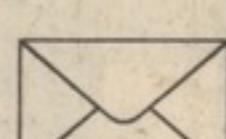
What would they rather people did? Go out and sexually molest the next person they see for their kicks? Or how about going out and having sexual intercourse with someone who is HIV+ and get AIDS or with a minor?

Besides, as long as they do what they do in the privacy of their own house I don't see what it has to do with anybody else!

Call me a pervert or a bender, I don't care, at least I'm not an interfering busybody who sticks their nose where it isn't wanted!

Richard Burman, Harrow

I THOUGHT about passing this over to the lady who inhabits the column on the next page, but I had second thoughts when I realised the ensuing barrage I'd have to endure. Sorry, Richard, but yours is the kind of liberalism that borders on the disturbing. It's precisely what people need protecting from.



## PD like CB?

On the subject of PD filth and illegal copying, the situation is not dissimilar to the situation on CB Radio. What seems like a good idea eventually becomes infested with every kind of pervert and foul-mouthed in Christendom.

People who are unable to communicate become obnoxious so that people will notice them. Such is their pathetic lives I'm afraid it is something that will not go away.

P.O. Dea, Old Hall, Warrington

## WANTED!

### Your honest opinion of EXPRESS

To help us keep improving your favourite magazine, please fill in and return this form

#### 1. How did you buy this issue?

- I subscribe
- Newsagent delivered it to my home
- Asked newsagent to reserve copy
- Bought it on planned shop visit
- Just happened to see it and liked it

#### 2. Rate NEW COMPUTER EXPRESS in terms of value for money:

- Excellent!  Good
- Reasonable  Poor  Ripoff!

#### 3. Out of ten, how much did this week's cover make you want to look inside? /10

#### 4. How much does this issue appeal to you overall? /10

#### 5. How does it compare with previous issues you've seen?

- Much better!  Slightly better
- About the same standard
- Slightly worse  Much worse!

#### 6. Rate out of ten this and any other computer magazines you read regularly:

NEW COMPUTER EXPRESS...../10

#### 7. Out of ten, how useful did you find this week's main feature? /10

#### 8. What do you like most and then least about this issue?

I most like .....

#### Your name and address: \*

- \* Leave blank if you wish - but we may want to send you details of exclusive special offers
- No stamp needed if posted in UK. Return to: NCE, Issue 148 Survey, Future Publishing, Freepost, Bath, Avon BA1 2XF.

## LETTERS

## ON THE COUCH

This week it's the turn of PAUL BLAKELEY of SHEFFIELD to jump on to the couch with our resident *Express* psychiatrist Dr Clare Anthony. And you could be next – send in the name of the machine you own, your favourite software and the machine you most desire to: Leather Couch Clare, NCE, 30 Monmouth Street, Bath BA1 2BW.

OK Paul, let's begin the probing shall we? Now, just lay your head down, lean back and relax...

• MACHINE OWNED: Atari ST  
• FAVE SOFTWARE: *Pagestream*  
• DESIRED MACHINE: Canon CLC500  
Paulie, Paulie, you lovable little ball of static fluff, oh how I feel for you! Your problem is that, well I'm sorry, but you're a potential serial killer.

I took one look at the machine you most desire and thought 'my poor, poor sweetie'. You see, as we Freudians know only too well, there's one essential point about the Canon CLC500 to bear in mind. It costs £45,000. Although its undoubted pleasures include full file and scanner inputs, coupled with photo-realistic image manipulation and output, don't you think the upgrade path is a little too steep? Probably not, since you are obviously expressing your unbridled desires, but you nevertheless have an unresolved desire to murder your bank manager in the most horrific way imaginable. How do I know this?



Well, *Pagestream* is an interesting choice of software. Potentially it's the most powerful DTP pack for the ST, I seem to remember it suffered from memory problems. Now Paul, a lot of people suffer from memory problems don't they? But it's not as though they can just go out and buy some extra RAM, is it? Well not yet anyway. But in that big meantime, you've taken out your frustrations on the unfortunate father figure who sits behind the big desk in your local Lloyds. And when it's impossible to borrow £45,000 for the Canon what will you do? Why, you'll batter him beyond recognition, transfer your account to another bank and begin the whole sorry cycle again.

**PROGNOSIS:** You need to do two things. Visit your bank manager and ask him for £800 to buy an Atari laser printer and Cameron Scanner. Then buy *Silence of the Lambs*. Scan in the entire text, change all the details to include computer references and re-release it as *Error: This human is unrecognisable*

YEP, THIS follows on from the last letter. If you have areas that offer uncensored opportunities to air whatever it is that takes your fancy then they are bound to get abused.

Fortunately with PD it's only a small minority, but I can't speak for CB radio. The problem is that as soon as you try and protect people's liberties in these areas you get accused of denying them the very same. You have to draw the line somewhere – a point which Richard Burman seems to think is simply too heavy handed.

 STE problems?

First, the letters page – letter headed *Service*. I have been the proud owner of an STE for about a year and have experienced many problems using the machine – no problems at all from PD suppliers.

Unlike many users, I am not a techie – I use the ST as a tool and hate CLI's – so try and stay clear of them wherever possible! As a result, some programs are hard to come to grips with. But, I run a large area on CompuNet devoted to ST Software (about 1,000 files now available) and ST problems.

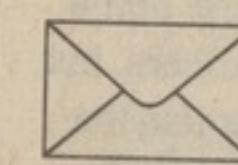
I would be happy to extend the service I offer here to any other ST users with problems – basically, CompuNet allows me to

share my problems with other users and come to a pooled understanding and solution!

Finally, all this tosh about porn, etc in the Public Domain. Certainly it needs regulation – but I have yet to come across anything on an on-line system which is offensive – with the possible exception of *What the butler saw* which is advertised by one PD library in your pages anyway! Ah well, five pen'orth over! Keep publishing – and for my part, I'll keep reading.

Aidan Heritage, Stevenage, Herts

JUST TO clarify Aidan's offer, any modem-owning ST readers out there who require help with their machines and software, CompuServe is on 071-437 4393. But if you fancy paying a lot more than the price of a stamp and/or if you don't have a modem then why not just send in your queries to Tech Tips?



## Page 6 demos

Have you actually seen any of the demos (page 6 disks #129, #150, #151, #156, #158, #159, #161, #162, DS#51) available for the XL/XE? No?

Then maybe you should before you jump to the conclusion of what the XL/XE is capable of.

# NDT SYSTEMS

## 80486DX-33

# £1655

TEL: 0922 616733  
FAX: 616737

All prices exclude Vat. P&P U.K. £7.50  
By Insured carrier

NDT - Unit 18, Corporation  
St West, Walsall, West  
Midlands WS1 4DU

# Composit Software

## The Composer's Pen PC

*Unreservedly recommended*  
New Computer Express.

**only £125.00 (excl VAT)**



## Features include:

- Up to 99 staves
- Up to 20 note chords
- 9 octave pitch range
- Any number - tuplets
- Seven clefs
- Transposition
- Comprehensive beaming and flagging
- Full control of note and stave spacing
- Text and standard music symbols
- 'Cut and paste' music
- Print the score and the parts
- Clear manual written by a musician

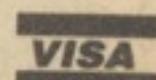
Send for details & sample printouts  
or ask at your local  
music/computer shop

Order now! Telephone hotline

**0952 595436**

Composit Software Dept N/148  
FREEPOST  
10 Leasowe Green, Lightmoor,  
Telford, Shropshire TF4 3BR

Cheques payable to Composit  
Software





## MACHINE SPECIFICS

# MACINTOSH

- Microsoft Word 5.0 due for Christmas
- Getting exactly what you see in System 7
- Speak a da lingo with the help of CD-ROM

### THE WORD ON WORD

Rumours have been strengthening that a new version of Microsoft Word – called either version 4.5 or 5.0 – will arrive late this year or in the first quarter of next.

The PC Windows version of the program has undergone a couple of major revisions recently, and now has a number of facilities not available on the Mac incarnation of the program. The word goes that the new Mac version will be very similar to the Windows product in operation, easing life for those who use both Macintoshes and PCs.

One standard word processor across both platforms will mean that people no longer have to learn two different ways of editing documents and so on.

And, incidentally, it should also help Microsoft sell even more copies of *Word* on both the Mac and PC.

### DISPLAY POSTSCRIPT?

Apple sent out a rather interesting press release the other day, informing us that, "Apple and Adobe have signed a

letter of intent to implement a co-operative font strategy."

In plain English what this means is that they have made an agreement to

## POSTCARD FROM AMERICA

I'm going to take this opportunity to vent a brief diatribe, so please don't freak out!

MacHack is the leading Macintosh technical conference. It's a combination of a fraternity reunion (90 per cent guys) and a mutual admiration society for silicon jocks. There's a shared sense of the digital world view and an abundance of common programmer pastimes; mostly sitting for hours coding at the computer, staying up all night nursing a piece of code and talking deep shop. But newcomers to the digital side of the street might not understand that these are the good guys!

The Hackers Dictionary (an electronically published dictionary of computer slang from MIT, Stanford, and Worcester Polytechnic Institute) gives the following definitions for hacker:

Hacker [originally, someone who makes furniture with an axe] n. 1. A person who enjoys learning the details of programming systems and how to stretch their capabilities, as opposed to most users, who prefer to learn only the minimum necessary. 2. One who programs enthusiastically, or who enjoys

include of Adobe Type 1 font technology within a future version of System 7.

The release goes on to say that the agreement calls for "the development of the software necessary to support the Type 1 rasteriser and Type 1 fonts within the Apple Macintosh System software."

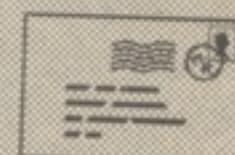
I think what this means is that Apple will include an *Adobe Type Manager (ATM)* work-alike in a future version of System 7, giving users a high-quality screen display of Type 1 fonts, as it does TrueType at the moment.

Although this will not mean that the display of PostScript graphics on screen is possible, it does mean that you will get

an absolutely true 'What You See Is What You Get' (WYSIWYG) display of all text, rather than the somewhat jaggy bitmaps which occur at present when PostScript screen fonts are enlarged.

Of course, the agreement means that Adobe will no longer receive revenue from selling *ATM* – no-one will need to buy it – but then perhaps the company feels that with the advent of TrueType not many people would want to buy it anyway.

The other great advantage of a PostScript font rasteriser built into the System software is that users of QuickDraw printers, such as the



programming rather than just theorising about programming. 3. A person capable of appreciating hack values. 4. A person who is good at programming quickly. Not everything a hacker produces is a hack. 5. An expert at a particular program, or one who frequently does work using it or on it; example: "A UNIX hacker." 6. A malicious or inquisitive meddler who tries to discover information by poking around. Hence "password hacker," "network hacker."

Too often, hackers are described as a dangerous, or subversive group of unethical hooligans. All the negative mass-media publicity of computer viruses have spun the hack and the hacker into the doghouse. The name has also been adopted by those that break phone company long distance codes, what we used to call crackers. These codehackers, phonehackers or speedhackers (named after speed-dialling) are reinforcing a pejorative bent to the honoured hack. Remember, if there were no "real" hackers, we wouldn't have any hardware or software toys.

David Morgenstern

# NDT SYSTEMS

## 80386AMD-40

# £1095

TEL: 0922 616733  
FAX: 616737

All prices exclude Vat. P&P U.K. £7.50  
By Insured carrier



NDT - Unit 18, Corporation  
St West, Walsall, West  
Midlands WS1 4DU

## RUTLAND COMPUTER SUPPLIES LTD

30 Buckminster Close, Melton Mowbray, Leics, LE13 1ET

### TOP QUALITY UNBRANDED DISKS AT DISCOUNT PRICES

	1+	5+
3.5" DSDD disks inc. labels	39p each	2.50
3.5" DSDD coloured disks inc. labels	45p each	2.35
3.5" DSHD disks inc. labels	99p each	2.10
5.25" DSDD disks	25p each	2.85
5.25" DSDD coloured disks	39p each	3.95
5.25" DSHD disks	49p each	2.22

All disks are guaranteed 100% error free,  
packed with sleeves, labels + W/P tabs.

### STORAGE BOXES

#### Lockable anti-static with dividers & keys

3.5" BOXES	£
40 capacity	4.60
80 capacity	5.10
100 capacity	6.10
120 capacity	7.10
Banx boxes to hold 80 3.5" disks	9.95
Posso boxes to hold 150 3.5" disks	14.95
Posso boxes to hold 70 5.25" disks	14.95

5.25" BOXES	£
50 capacity	4.60
110 capacity	5.20
120 capacity	6.50

### CABLES

IBM PC cables 1.8m long	6.15
Centronics to Centronics cable 1.8m	9.50
2 metre joystick extension cable	4.95
RS232 Male-male, female-female, male-female	8.50
Joystick/mouse extension cable	3.95

### COMPUTER STATIONERY LISTING PAPER

11 x 9.5" 60gsm 2000 sheets	17.00
11 x 9.5" 80gsm 2000 sheets	20.00
A4 70gsm 2000 sheets	19.00
A4 90gsm 1500 sheets	20.00

### QUALITY COMPATIBLE RIBBONS

1+	5+
Amstrad LQ3500/8256	2741FN
Amstrad 9512	2746FN
DMP2000/3000	2482FN
Brother M1009	2412FN
Brother M1509	2479FN
Canon 1156	2223FN
Citizen 120	2488FN
Citizen Swift 24	2939FN
Swift 24 colour	Original
Epson EX800	2774FN
FX800/LX800/MX/FX80	7273FN
MX100	2320FN
LX80/LX85	2454FN
LQ800	2477FN
LQ1000/1050	2478DN
LQ2500	2795DN
LQ2550	2877DN
NEC P2200 (+)	2844FN
Olivetti DM1/200	2843FN
Olivetti DM105	2863FN
Panasonic KXP110	2228FN
KXP1124, KXP1081	2904FN
Star LC10	2864FN
LC10 colour	2861col
LC24-10	2868FN
LC24-10 colour	original
LC200	6.40
LC24-200	original
LC24-200 colour	original
LC200 colour	original

This is just a small selection of ribbons.  
If your printer is not listed - please ring  
for a price.  
Originals available on request.

All prices include 17.5% VAT. Post and packing £3.50.

3 day courier £6.50. Overnight £8.50.

All orders are despatched within 24 hours subject to stock availability.

## INK JET AND LASER TONER CARTRIDGES AVAILABLE



OFFICE HOURS  
9.00am to 7.00pm Monday to Friday  
10.00am to 12 noon Saturdays.  
PHONE & FAX: (0664) 500878



## CPC

you see is display of all what jaggy present when enlarged.

ent means ever receive no-one will perhaps the advent of would want

age of a fit into the users of as the

ning. 3. n who or one NIX

ass- did by t we r a e no toys. nstern

StyleWriter, will now not only get great-quality TrueType fonts, but smooth PostScript ones as well.

Given that Adobe has already done much of the necessary programming by creating ATM, hopefully it won't be too long before the technology is integrated into System 7, although System 7.1 is probably too soon to hope for.

## SYSTEM 7 DISCOUNTS

According to Apple market segment manager Nigel Turner, 10 per cent of the Mac user base has already upgraded to System 7.

However, it seems that Apple wants to encourage a lot more users than that to convert. This speculation comes about because of an offer Apple is making to anyone who buys the *System 7 Personal Upgrade Kit*.

Over the next few weeks, any Mac user who buys the upgrade kit will receive a booklet of what Apple calls 'Software Specials' - vouchers for money off products from leading software companies such as Claris, Microsoft, Macromind, Symantec, Bitstream, Monotype and Computers Unlimited. A total of 26 products are featured, and the total value of the vouchers is over £1,500.

There are also vouchers for reductions on some hardware upgrades: the upgrade from an SE to an SE/30 is reduced from £956 to £600, the IIci upgrade is down to £775 and the IIfx upgrade (including 4Mb of RAM) is now only £1,290.

But hurry, hurry, hurry (as they say). The offers expire on 20 September. And at those reduced prices, they're certainly worth considering if you own just a basic SE or Mac II.

## LEARNING BY CD-ROM

Attentive readers may recall a snippet a couple of columns back about something called *HyperGlot* software, from GuildSoft, which claims to be able to teach you foreign languages.

The seven languages supported are Chinese, French, German, Italian, Japanese, Russian and Spanish, and there are 30 courses in all - each covering a specific aspect of the learning a foreign language, such as basic vocabulary building, pronunciation, verbs and so on.

Now the entire 30 courses are available on CD-ROM. The collection is called *LinguaROM II*, and makes 'extensive use' of digitised sounds to enable you to hear the correct pronunciation and intonation of words from native speakers of the language.

The CD-ROM contains 112Mb of data, and its price of £795 plus VAT apparently represents a saving of more than 50 per cent over purchasing the courses individually.

If you have a Mac with 1Mb minimum RAM, System 6.0.7 or higher, a CD-ROM drive and an insatiable desire to be able to speak to just about anyone on the planet, give GuildSoft a call.

0752 251155.

Ian Wrigley

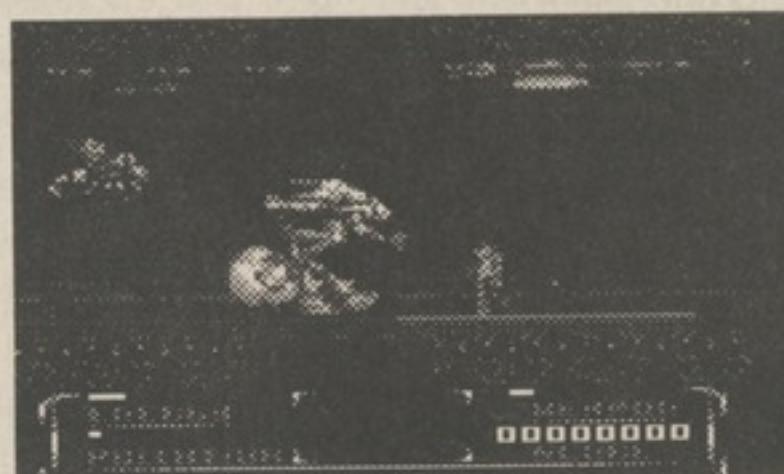
- Action-packed pollution-busting in *Robozone*
- Where can you save £100 on a 464 Plus?
- Megaphoenix shot down in flames

## ROBOZONE

Mirrorsoft's latest epic, *Robozone*, is decidedly odd. Firstly, it's not a film licence. Secondly, the goodie is a thumping great robot while the baddies are people. Thirdly, it's all about saving the world from pollution...

Well, never mind all that ecological stuff, the point is that *Robozone* is an extremely decent scrolling shoot-'em-up.

The plot is that you're controlling a Wolverine, a law-enforcement robot whose job it is to clean up a grotty city not only polluted with all sorts of



• Robozone level one - the pollution's piling up and you haven't found your way to the chief bad guy yet

unmentionable grottness, but also populated by scumbag-type people whose own grottness almost defies description.

When it takes a hit, your Wolverine doesn't instantly turn up its toes and peg it; instead, its energy level goes down. When it hits zero, you lose one of your three lives. You can also lose the whole game when the pollution indicator reaches a certain point - you have to destroy Level One's end-of-level guardian before it does.

Level One's a bit tricky because it's an underground maze. There's nothing immensely complicated, but you're going to have to map it as you go along to find your way out.

Level Two gives you a different viewpoint. Now you're looking at your Wolverine from behind as it prowls the city streets. You have to find various electrical components and a scientist before you can advance to Level Three.

Level Three uses *R-Type*-style horizontal scrolling. You have to make it

Continued on next page ▶

## GB SYSTEMS — V — LINK

FOR ALL YOUR COMPUTING NEEDS

## DTL PC COMPATIBLE COMPUTERS

All systems are based on 14" SUPER VGA COLOUR MONITOR, 40Mb IDE Hard Drive, Mini Tower Case, 102 Key Keyboard, Mouse, DOS 5, WP, DB, SS Software.

COMPUTER	RAM	
286 16Mhz	1Mb	£995.00
386SX 20Mhz	1Mb	£1195.00
386 25Mhz	1Mb	£1395.00
386 33Mhz	4Mb	£1795.00
486 25Mhz	4Mb	£2195.00
486 33Mhz	4Mb	£2295.00

DTL are a PC manufacturer that supply top quality products at competitive prices. All the PC systems are 100% IBM PC compatible and are built to the highest specification possible. DTL as a company have been around for more than 5 years and supply machines to large corporations. We can supply the whole range of DTL PCs setup to your own individual specification.

THE NEW AMIGA A500  
Cartoon Classics Pack £399.00

Inc. Captain Planet, Bart Simpson and Lemmings Games. Plus EXCLUSIVE to G B Systems TEXTENGINE V2 Word Processor, More Games, Spreadsheet, Joystick, Mouse Mat.

We also supply:- MONITORS & PRINTERS Disks, Disk Boxes, Printer Ribbons, Joysticks, Mouse Mats, Mice, Leads, Connectors. Plus hundreds of other items.

## COMPUTER REPAIRS

**Amstrad:** 464, 664, 6128, PCW Range, 1512, 1640, 2000 & 3000 Range

**Atari:** ST520, 1040

**Acorn:** BBC, Master & Arch

**Commodore:** 64, 128, A500, 2000 & 3000

**Sinclair:** 48K, 128K, +2 & +3

**IBM & Compatibles**

**Monitors & Printers**

Please Phone For  
Prices

Save hassle and  
send your computer  
for repair by post



G B SYSTEMS — V — LINK

86 WALTON ROAD EAST MOLESEY SURREY KT8 ODL

TEL: 081 979 5638 FAX: 081 941 4440

150 space  
public car park  
at rear of shop

# ATARI

## ST Accessories

SM124 Mono Monitor	£129.00
External 3.5" Disk Drive	£69.00
Golden Image Hand Scanner	£169.00
Forget-Me-Clock II	£19.95
ST Monitor Switch Box	£14.95
STE Stereo scart lead	£12.99
STFM scart lead	£12.99
STE Stereo MKII 8833 lead	£12.99
STFM MKII 8833 lead	£12.99
Joystick/Mouse extension lead	£4.99
Replacement Mouse lead	£3.95
Standard Parallel lead	£5.95
Mouse Mat	£3.50
Squid replacement mouse	£14.99

## Protar Hard Drives

We are now official stockists of the latest in high quality / low price ST hard disk drives from Protar. All Protar hard disk drives come with a full 12 month REPLACEMENT warranty (no lengthy repairs!), a DMA through port, device number switching and superb disk management software.

### \* NEW LOW PRICES \*

### \* STE COMPATIBLE \*

Progate 20Mb Hard Disk	£279.00
Progate 40Mb Hard Disk	£341.00
Progate 40Mb with Cache	£423.00
Progate 44Mb Removable	£611.00
Progate 60Mb Hard Disk	£437.00
Progate 60Mb Tape Streamer	£581.00
Progate 80Mb Hard Disk	£486.00
Progate 80Mb with Cache	£565.00
Progate 150Mb Tape Streamer	£793.00
Progate 160Mb with Cache	£922.00
Progate 440Mb with Cache	£1588.00

## STE Ram Kits

DIY 1 - 512k upgrade	£29.99
DIY 2 - 2mb upgrade	£89.00
DIY 4 - 4mb upgrade	£159.00

All STE Ram Kits come with instructions and DO NOT require soldering in most machines.

# 8833

MKII

## Colour Monitor

The Philips 8833 MKII is the perfect colour monitor for ST and Amiga owners. With its stereo sound and super quality picture it really shows off the full capabilities of the STE and the Amiga. The Philips 8833 MKII also comes with 12 months on site warranty FREE!

8833 with STFM cable	£249.99
8833 with STE cable	£249.99
8833 with Amiga cable	£249.99

### Or even better ....

The new VISTO colour monitor The VISTO C14M, made under official UK licence from Philips themselves, is identical in every respect to the Philips 8833 MKII including all inputs and outputs. But, VISTO have enhanced the looks of the monitor by replacing the case with a new upgraded better looking version. The VISTO C14M has a no quibble 12 month replacement warranty and comes free with cables for all Amigas and all Atari STs.

VISTO C14M £248.00

# PRINTERS

## ACCESSORIES & RIBBONS

All of our printers come with a parallel cable to suit Atari ST, Amiga and all standard PC etc (other cables available at extra cost - ask for details). All printers carry a full 12 months warranty. We only sell genuine UK stock - we do not offer inferior "grey imports".

## CITIZEN

### \* 2 YEAR WARRANTY \*

**EXTENDED SPECIAL OFFER!** Due to the massive response to our FREE colour kit offer we have decided to extend the offer so all Citizen Swift 9,24 and 24X printers will continue to come with a FREE colour kit and colour ribbon until stocks last.

**SPECIAL OFFER!** For a limited period only we are offering a CITIZEN PRINTER STARTER PACK with all Citizen printers. The pack comprises of : 3.5" disk full of printer drivers for the ST, Amiga & PC; 200 sheets of fanfold tractor feed paper; 200 fanfold tractor feed address labels; 5 tractor feed envelopes all for only £12.99 on top of the price of the printer

Citizen 120D + (9-pin, 144 cps draft, 30 cps NLQ)	£139.00
* Citizen Swift 9 (9-pin, 192 cps draft, 48 cps NLQ)	£199.00
Citizen 124D (24-pin, 144 cps draft, 48 cps LQ)	£209.00
* Citizen Swift 24 (24-pin, 192 cps draft, 64 cps LQ)	£299.00
* Citizen Swift 24X (24-pin, 15" carriage)	£399.00

\* Denotes FREE COLOUR UPGRADE KIT

## Star

Star LC10 Mono (9-pin, 144 cps draft, 34 cps NLQ)	£155.00
Star LC200 Colour (9-pin, 180 cps draft, 45 cps NLQ)	£220.00
Star LC24-10 Mono (24-pin, 180 cps draft, 60 cps LQ)	£215.00
Star LC24-200 Mono (24-pin, 200 cps draft, 67 cps LQ)	£260.00
Star LC24-200 Colour (24-pin, 200 cps draft, 67 cps LQ)	£295.00
Star XB24-10 Mono (24-pin Professional Series)	£475.00
Star XB24-15 Mono (24-pin 15" version of XB24-10)	£600.00

## Other Printers .....

Canon BJ10E Bubble Jet (ink jet, portable and compact)	£289.00
Hewlett Packard DeskJet 500 (ink jet, 3 pages per minute)	£399.00
Panasonic KXP 1124i (24-pin, improved version of KXP 1124)	£279.00

PHONE OR VISIT US TODAY FOR THE BEST PRICES FOR PRINTER RIBBONS AND ACCESSORIES ETC

LASER PRINTERS & PLOTTERS AVAILABLE ON REQUEST - PLEASE RING US WITH YOUR REQUIREMENTS

# ATARI LYNX

The Atari Lynx is a superb full colour, hand held, games console using plug-in cartridge games. The Lynx can be used with either batteries or a mains power supply unit. All our Lynx machines come with instructions and are available with or without mains power supply unit and comlynx cable.

Lynx Console Only	£79.99
Lynx + PSU	£84.99
Lynx + PSU + Comlynx	£89.99
Carrying Case	£14.99
Carrying Pouch	£11.99
Car Power Adaptor	£9.50
Sun Visor/Scratch Shield	£6.99
Mains Power Supply	£14.99
Comlynx Cable	£7.99

## GAME CARDS

Blue Lightning	£19.99
Chips Challenge	£19.99
Electrocop	£19.99
Gates of Zendon	£19.99
Gauntlet 3	£19.99
Klax	£19.99
Miss Pacman	£19.99
Rampage	£19.99
Road Blasters	£19.99
Robo Squash	£19.99
Rygar	£19.99
Shanghai	£19.99
Slime World	£19.99
Xenophobe	£19.99
Zarlor Mercenary	£19.99

War Birds *NEW*	£23.99
Paperboy	£23.99
California Games	£23.99
Block Out *NEW*	£23.99
Ultimate Chess *NEW*	£27.99

# AMIGA

## Accessories

Protar 512K ram upgrade + clock	£29.99
A501 512K ram upgrade + clock	£39.99
A500 1.5Mb ram upgrade	£99.99
A590 20Mb hard disk drive	£284.95
External 3.5" Disk Drive	£65.00
Squid replacement mouse	£14.99
Golden Image Hand Scanner	£169.00
Amiga Stereo Scart Lead	£12.99
Amiga 8833 MKII Lead	£12.99
Mouse Mat	£3.50

## 512K Ram Upgrade with Clock

We are now stocking the new PROTAR 512K RAM UPGRADE WITH CLOCK. The neat, compact 4 chip design comes complete with box, instructions, on/off switch and a full 12 month warranty.

PROTAR 512K Ram with clock £29.99

We also have limited stocks of the genuine Commodore A501 512K Ram Expansion, which we are offering at the ultra low price of:

A501 512K Ram with clock £39.99

Please specify which 512K ram upgrade (either Protar or Commodore) when ordering from us.

## NEW Protar Amiga Hard Drives

At last ... high quality hard disk drives for the Amiga A500. The new PROTAR range of A500 hard disks are here ... and just look at the specifications ...

- Perfect fitting to the A500
- Colour matched to the A500
- 5 times faster than the A590
- 8MB internal ram expansion facility
- 1 year REPLACEMENT warranty
- 2 year warranty of Cache versions
- Auto parking & auto booting
- Separate PSU supplied
- Sub 24 millisecond access time
- Hard disk management software

Progate 20Mb Hard Disk	£279.00
Progate 30Mb Hard Disk	£349.00
Progate 50Mb Hard Disk	£429.00
Progate 50Mb with Cache	£529.00
Progate 60Mb Hard Disk	£



## MACHINE SPECIFICS

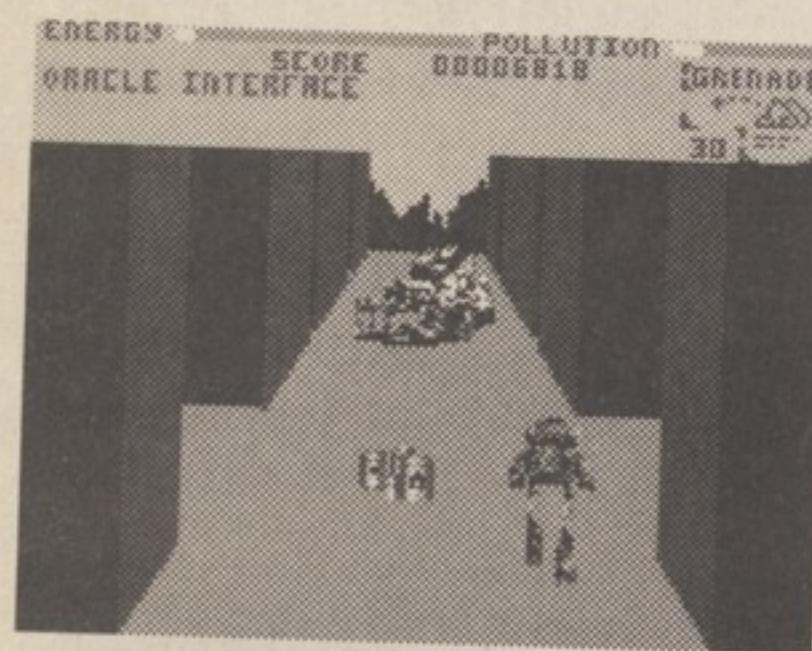
to a confrontation with the final end-of-level guardian. Wipe him out and you've saved the world. (Wait a minute, end all pollution and you don't need Wolverines any more...)

The plot's not only green, it's starting to pong a bit. But the graphics steal the show - colourful, smooth and well animated, they make *Robozone* a damned fine shoot-'em-up (which reminds me, when will there be another series of *Twin Peaks*?)

My only gripe is that you can't avoid taking hits, and because you can survive loads of them it takes away some of the arcade immediacy.

It's tough to complete, but more because of the puzzling/exploration content than the marauding baddies.

Priced at £10.99 on cassette and £14.99 on disk, it's good, but it's no *Turrican 2*.



• *Robozone's* second level - you have to go around looking for some circuitry, rescue a scientist and shoot hell out of everything else in sight



• *Robozone*, level three - it makes that old stager *R-Type* look pretty ill by comparison. Lots of colours, multitudes of baddies... It's just a shame that it's not a bit bigger

### MEGARUBBISH

Annii Smith of Hull has got a couple of things to say about Spanish company Dinamic's *Megaphoenix* game, as previewed on a recent *Amstrad Action* coverpage...

"It is TERRIBLE. I loaded it, and although it looked rather blocky I started playing. Within 30 seconds it said, 'Well done, have another go', and in another half minute my name was on the bottom of the high-score board.

"It's too easy, it's got blocky graphics, it's boring, the music is awful, you can't read the writing and it must have been sold under at least ten other names already!"

Oh. You didn't like it then?

OK then, I'll be honest. I've only played it about five times myself. That was all I could bear.

A pity, because Dinamic usually turns out some good stuff. What prompted this load of hokum is a bit of a mystery.

### WHAT A BARGAIN!

Here's a worrying, but sadly all too typical letter I received recently from Dawn James:

"I had intended to write to you and tell you that Empire Stores Mail Order catalogue is offering the new Plus machines at reduced prices. In its latest catalogue a 464 Plus (with colour monitor) costs £249.99 and a 6128 Plus (with colour monitor) costs £299.

"However, today I went into Dixons in Southend on Sea and found it was offering a 464 Plus (with colour monitor) for £199! And a 6128 Plus (again, with colour monitor) was going for £299.

"The staff informed me that the machines had been withdrawn from sale at Dixons, but they weren't sure if Amstrad was withdrawing them across the board or whether Dixons had taken the decision because they were not moving fast enough.

"What is going on? is Amstrad withdrawing them because of incompatibility problems? (By the way, *Barbarian I* and *Ghouls & Ghosts* doesn't work on the Plus.) Will the CPC make a comeback, or will Amstrad scrap the games machines/computers completely?

"I am very peeved as I had just bought my son's Plus machine two

### ADDRESSING A PROBLEM OF LABELS

Here's a brilliant listing from yesteryear, from Cormac McGaughey of Cushendall. It prints out labels and should work on any Epson-compatible. There are a couple of things to do first, though:

- Set the printer to Friction Feed
- Set the 'Paper Thickness' to maximum.
- The listing is as follows:

10 PRINT #8,CHR\$(27); "1";  
CHR\$(30);

```
20 PRINT #8,CHR$(27); "x";  
CHR$(1);  
30 PRINT #8, "New Computer  
Express"  
40 PRINT #8, "Beauford  
Court"  
50 PRINT #8, "30 Monmouth  
Street"  
60 PRINT #8, "Bath BA1  
2BW"
```

To change the address, just change the appropriate lines in the listing.

**ANALOGIC**  
**ANALOGIC**  
**ANALOGIC**

**ANALOGIC COMPUTERS (UK) LTD**  
152 Latchmere Road, Kingston-upon-Thames  
Surrey KT2 5TU

Telephone Mon - Sat. 9am to 9pm  
TEL: 081 546 9575  
FAX/TEL: 081-541-4671

**520 STE DISCOVERY EXTRA PACK**  
Includes 1 Meg Drive and • DragonsBreath • Super Cycle • Indiana Jones • Anarchy • Neochrome • First Basic • ST Tour • CX40 Joystick.

**SPECIAL OFFER**  
2 Year warranty for only £14.95 extra

512K	£299.00
1 Meg	£329.00

**1040 STE FAMILY CURRICULUM PACK**  
Includes an Atari 1040STE Personal Computer and five different level application modules:  
MODULE 1 is designed for Pre-School aged children.  
MODULE 2 targets the junior school children.  
MODULE 3 is designed to assist those taking GCSE Exams.  
MODULE 4 contains Hyperpaint, Music Maker 2 and ST First Basic  
MODULE 5 is a business computing compilation: Wordprocessor Package, Database, Spreadsheet.

1 Meg ..... £349.00

### PHILIPS 15" TV/MONITOR

**MODEL 2231** High quality medium resolution colour monitor with remote control teletext TV & Scart cable ..... £269.00  
**MODEL 3332** High quality medium resolution colour monitor with remote control TV & Scart cable ..... £239.00

### DISK DRIVES

1 Meg 3½" Internal SONY Drive ..... £49.95  
1 Meg 3½" External Drive with its own PSU ..... £59.95

### REPAIRS WITHOUT DIAGNOSTIC FEES

**520/1040 (STFM/STE) • FIXED CHARGES**  
• FAST TURNAROUND ..... £59.95

★ We pick up faulty computer from your premises for only £5.00 + VAT

### POWER SUPPLIES WITH ONE YEAR GUARANTEE

STFM/STE Power Supplies (Service Exchange) ..... £44.95

### MEMORY UPGRADES WHILE YOU WAIT!

1. 520 ST/STM/STF/STFM to 1 Meg ..... £59.95
2. 520 ST/STM/STF/STFM to 2.5 Meg ..... £159.95
3. 520 STE to 1 Meg ..... £29.95
4. 520 STE to 2 Meg ..... £89.95
5. 520 STE to 4 Meg ..... £169.95

FREE  
FITTING

★ We specialise in Surface Mount Chips  
★ WE PROVIDE PICKUP SERVICE FROM YOUR PREMISES  
FOR ONLY £5.00 + VAT

### MEMORY CHIPS AT LOW, LOW PRICES

16 x 256K x 1 Bit DRAM	£29.95
16 x 1 Meg x 1 Bit DRAM	£89.95

### EMULATORS

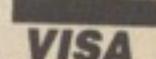
PC SPEED & fitting	£99.95
AT SPEED C16 including fitting	£249.95
• 16 MHz Clock Speed	

### PROGATE HARD DISKS for your ST

Progate 20	£279.00
Progate 30	£319.00
Progate 40	£339.00
Progate 40DC	£419.00
Progate 60	£429.00
Progate 80	£479.00
Progate 80DC	£559.00

★ All prices include VAT and Next Day Delivery

★ Please call for special deals on printers  
and other Atari Products



into Dixons  
and it was  
ur monitor)  
again, with  
£299.

that the  
from sale  
t sure if  
em across  
had taken  
were not

Amstrad  
use of  
the way,  
ts doesn't  
C make a  
scrap the  
completely?  
had just  
mine two

**ELS****x";****cer****h****ange**

months ago from a mail order catalogue for £408!"

So says Dawn James of Hullbridge in Essex.

Well, Dawn, you have my sympathy. We bought two machines off Amstrad, too. We did get a discount, but not as much as the retailers are now offering.

It's hard to say for sure what went wrong with the new machines. Although Amstrad made a great song and dance about all the new games titles that would be available for the GX400/Plus by the time they were launched, sluggish distribution and release made a bit of a farago of the whole thing.

The result? People didn't see the games on sale so they bought other machines instead.

As for the serious side, always a selling point of the CPC range in the past, Amstrad now insists that as far as it is concerned the Plus is a games-only machine. Any serious publishers who want to write for it can go ahead, but they won't get any help from Amstrad's publicity or promotional campaigns.

It's all very strange. Amstrad must have spent a great deal of money on the new machines, and yet the moment they hit trouble the company seemed to lose all interest in them.

**Rod Lawton**

*Rod Lawton is editor of Amstrad Action, by far the finest magazine for all things CPC that mere mortals have ever had the fortune to read. Buy it from your newsagent ever month.*

# C64

- **Passing judgement on Terminator 2**
- **How to construct a better 3-D world**
- **Combat and Ninja Massacre cheats galore**

## HASTA LA VISTA, BABY

Rather than bring you an exclusive mega preview weeks ago, I decided to wait until the film had actually been released – just to see if Ocean had got it right.

The company's recent crop of goodies have been mediocre at best, so *Terminator II: Judgment Day* as source material would seem to be a blessing.

The second film sees two Terminators battling it out; one is Arnie, the T800, which has been re-programmed and sent back to protect the young John Connor from the shape-shifting T1000.

● Level One of the game represents the scene in the film when you first discover which is the *real* Terminator. Based on a confrontation behind an amusement arcade the level is a straightforward one-on-one beat-'em-up with the T1000 in the guise of a cop.

● After this, John Connor escapes on a motorcycle, pursued by the T1000 in a Mack truck (with Arnie far behind). This section is a simple case of avoiding the debris and the truck... which is easier said than done.

● Level three is a sliding block puzzle, a bit like *Split Personalities*, where a section of Arnie's arm has to be re-connected. Most people will remember this from the original *Terminator* movie, but it doesn't happen at all in the second film. As a result, if you fail this section you can still try the later levels.

● Level four is yet another beat-'em-up section, in which Sarah Connor has to attempt to escape from a mental

Continued on next page ▶



• Will Ocean surprise us all with its *Terminator 2* game, or will it end up another tired, clichéd film licence cash-in?

# Computer Repairs and Upgrades

- ★ Fast, efficient service. Average turnaround 24hrs.
- ★ Experienced, qualified engineers.
- ★ Fee includes complete diagnostic inspection.
- ★ All repairs carried out covered by free 90 day warranty.
- ★ Free registered carrier PICKUP and RETURN despatch, for ultimate peace of mind.

IBM compatible PC's, Ataris, Amigas, printers, modems, plotters, monitors, terminals, etc. etc. etc. Just send us your computer together with a fault description and £15 diagnostic fee and we will provide you with an itemised written quote, most repairs do not exceed £40. For upgrades, phone for part prices, typically at trade prices, and we will fit any upgrade for just £15 + parts.

**CHECK US OUT FOR THE BEST SALES DEALS AVAILABLE ON ALL TYPES OF  
IBM COMPATIBLE PC'S, ATARIS, AMIGAS, PRINTERS, SOFTWARE. YOU  
WILL NOT FIND A BETTER DEAL ANYWHERE IN THE UK!!**

**ACS**  
electronics

Business Enterprise Centre  
Eldon Street  
South Shields  
Tyne and Wear  
NE33 5JE

Telephone 091 - 455 4300  
Fax 091 - 455 1847

# Evesham Micros

All our prices include VAT at 17.5% and Delivery

## AMIGA SPECIAL DEALS

VIDI-Amiga video digitiser	£ 110.00
VIDI-Chrome-Amiga colour splitter	£ 16.95
VIDI-RGB colour input splitter	£ 64.95
RocGEN Genlock Adapter	£ 114.99
MiniGEN Genlock Adapter	£ 95.00
CBM A590 20Mb Hard Disk	£ 279.00
A590 512K RAM Upgrade	£ 29.95
A590 1MB RAM Upgrade	£ 59.95
A590 2MB RAM Upgrade	£ 99.95
A590 Replacement PSU	£ 39.95
A590 Replacement internal 3.5" Drive	£ 49.95
KCS Powerboard PC Emulator	£ 229.99
Amiga Virus Protector	£ 9.95
Stereo Sound Sampler inc. software	£ 29.95
MIDI Interface	£ 19.95
Golden Image Handy Scanner	£ 145.00
Kickstart 1.3 Upgrade	£ 29.95

### Buy an Amiga Feature Pack From Evesham Micros AND YOU ALSO GET ....

THESE FABULOUS GAMES:  
 Tracksuit Manager '90 • Subbuteo • Diskman • Jungle Book • Diet Riot • Lost'N Maze • Battle Squadron • Asterix • Block Avalanche • Tank Battle • Treasure Trap • Nigel Mansell  
 PLUS! A wordprocessor and spreadsheet

N.B. Not supplied with A590 'Base Pack' offers

### NEW! AMIGA 500 1MB CARTOON CLASSICS PACK

Incredible Value!!! Includes LEMMINGS, BART SIMPSON vs THE SPACE MUTANTS, CAPTAIN PLANET and DELUXE PAINT III

Cartoon Classics plus 3.5" External Drive ... £419.99

ONLY £369.99

### A500 COMPUTER BASE PACK

Amiga A500 Base Package £ 307.49

Amiga A500 Base Package with 512K RAM/Clock Upgrade £ 333.99

Amiga A500 Base Package plus External 3 1/2" Drive £ 357.49

Amiga A500 Base Package plus External 3 1/2" Drive and 512K RAM/Clock Upgrade fitted. £ 383.99

N.B. Does not include extra games software.

A500 1MB Screen Gems Pack £ 369.99

A500 1MB Screen Gems Pack plus 3 1/2" Ext. Drive £ 419.99

CLASS OF THE 90's Package £ 499.00

CLASS OF THE 90's Package plus 3 1/2" Ext. Drive £ 549.00

Amiga 1500 Starter Pack £ 949.00

## ZY-FI

amplified stereo speakers

GOT AN AMIGA, ATARI STE, ARCHIMEDES, SEGA MEGADRIVE, ATARI LYNX OR NINTENDO GAMEBOY? THEN GET THE FULL SOUND POTENTIAL WITH THIS PAIR OF FULL RANGE, AMPLIFIED STEREO SPEAKERS!

ONLY £39.95



### 3 1/2" EXTERNAL FLOPPY DRIVES

Compatible with the ST or AMIGA

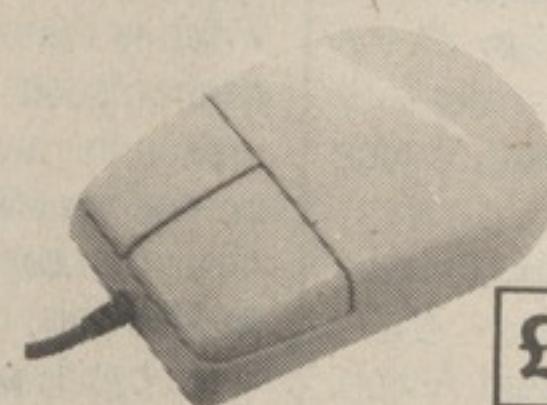


Very quiet • Slimline design • Cooling Vents • Sleek, high quality metal casing • Suits any Amiga or Atari ST • Full 1Mb Unformatted Capacity • Quality Sony / Citizen Drive Mechanism • Convenient On / Off switch on rear of drive • Long reach connection cable for location either side of computer

AMIGA VERSION ONLY £51.99

ATARI ST VERSION ONLY £54.95

### TRUEMOUSE (ST OR AMIGA)



WE GUARANTEE that this is the smoothest, most responsive and accurate replacement mouse you can buy for your Atari ST or Amiga. Excellent performance, amazing low price!

£17.95 SATISFACTION GUARANTEED

### PHILIPS 15" TV/MONITOR



With its dedicated monitor input, this model combines the advantages of a high quality medium resolution colour monitor with the convenience of remote control Teletext TV - at an excellent low price! NEW Version features dark glass screen for improved contrast, plus full range 3-way speaker sound output.

£269.00 Including VAT, delivery & cable

Philips CM8833 Mk.II including ST or Amiga cable £ 239.00

### PRINTERS ALL PRINTERS INCLUDE CABLE & 1 YEAR ON-SITE WARRANTY

Star LC10 best-selling 9-Pin PRINTER, SPECIAL PRICE £ 129.95  
 Star LC 200 9-Pin Colour, 4 fonts, 180/45cps £ 209.00  
 Star LC 24-10 24-Pin multifont, 180/60cps £ 209.00  
 Star LC 24-200 24-Pin multifont, 200/67cps £ 249.00  
 Star XB24-10 Inc.COLOUR Upgrade and Sheet Feeder £ 359.00  
 Olivetti DM100S 9-Pin, includes 1 Year on-site warranty £ 115.00

### olivetti DM124C 24-pin Professional COLOUR printer

Professional Quality 24-Pin Colour Printing  
 - At an affordable price!

Offering advanced COLOUR output with the superior quality of Olivetti 24-pin printing, the DM124C represents excellent value! Consistent high quality is assured every time. Guaranteed Peace Of Mind, with 12 Months On-Site Warranty cover!

200 cps draft, 50 cps LQuality • 7 Colour output; Graphics resolution 360 x 180dpi • Complete with cable, Colour Ribbon and 12 MONTHS ON-SITE WARRANTY

Olivetti DM124C Normal RRP: £ 389.95 inc.VAT

SPECIAL OFFER! £269.00 Including VAT and delivery

### LYNX Portable Games Console

Only £109.99 INCLUDES POWER SUPPLY & GAMECARD OF YOUR CHOICE!

Electro Cop £21.95 Rygar Warrior £21.95 Gates-Zendocon £21.95  
 Slime World £21.95 Zalor Mercenary £21.95 Chips Challenge £21.95  
 Klaax £21.95 Ms Pacman £21.95 Shanghai £21.95  
 Roadblasters £21.95 Xenophobe £21.95 Rampage £24.95  
 Paperboy £21.95 Blue Lightning £21.95 Gauntlet 3 £24.95

Cigarette Lighter Adaptor £ 9.99 Lynx Pouch £ 9.99  
 Sun Visor / Protector £ 5.99 Lynx Kit Case £ 14.99

ALL PRICES INCLUDE VAT @ 17.5% AND DELIVERY

Same day despatch whenever possible. Express Courier Delivery (UK Mainland Only) £6.50 extra.

### MAIL ORDER DEPARTMENT

Unit 9 St Richards Road, Evesham, Worcs WR11 6XJ

Call us now on 0386-765500

Lines open Mon-Sat., 9.00 - 5.30. Fax: 0386-765354

Technical support (open Mon-Fri, 10.00 - 5.30): 0386-40303

Send an Order with Cheque, Postal Order or ACCESS/VISA card details. Please allow 5 working days for Personal Cheque clearance.

Government, Education and P.I.C. orders welcome

All products covered by 12 Months Warranty

All goods subject to availability.

### RETAIL SHOWROOMS

Unit 9 St. Richards Road  
 Evesham  
 Worcs WR11 6XJ  
 0386 - 765180  
 fax: 0386 - 765354  
 Open Mon - Sat, 9.00 - 5.30

5 Glisson Road  
 Cambridge CB1 2HA  
 0223 - 323898  
 fax: 0223 - 322883  
 Open Mon - Sat, 9.30 - 6.00  
 IBM Dealer • Corporate Specialist

1762 Pershore Road  
 Cotteridge  
 Birmingham B30 3BH  
 021 - 458 4564  
 fax: 021-433 3825  
 Open Mon - Sat, 9.00 - 5.30



## LEVEL LEAPING NINJA CODES

Here are some codes for that wonderful Codemasters game, *Ninja Massacre*;

LEVEL 05 - SNOWLEVEL  
10 - BEERLEVEL  
15 - STAGLEVEL  
20 - BARDLEVEL  
25 - HOLELEVEL  
30 - HUGELEVEL  
35 - EASYLEVEL  
40 - WIDELEVEL  
45 - COLA

while fending off attacks from countless SWAT personnel.

- This is followed by another vertically scrolling section, with the T1000 pursuing a SWAT truck in his newly claimed helicopter. Arnie drives a truck, while Sarah launches a volley of bullets and missiles from the back. You have to control both of them!
- One long chase and several crashes later, the whole crew arrives at a steelworks, and, guess what, the T800 and T1000 must battle it out - this time to the death.

I'm not a cynic by nature, but I have

instituted with the use of a broken mop handle. The corridors scroll from left to right, and Sarah can also move from floor to floor via lifts.

• Level five is yet another beat-'em-up section, with Arnie tackling the T1000 yet again. After the truck chase, both adversaries make for the mental hospital to seek out Sarah Connor. Arnie and John reach her first, but the T1000 will do anything to destroy them.

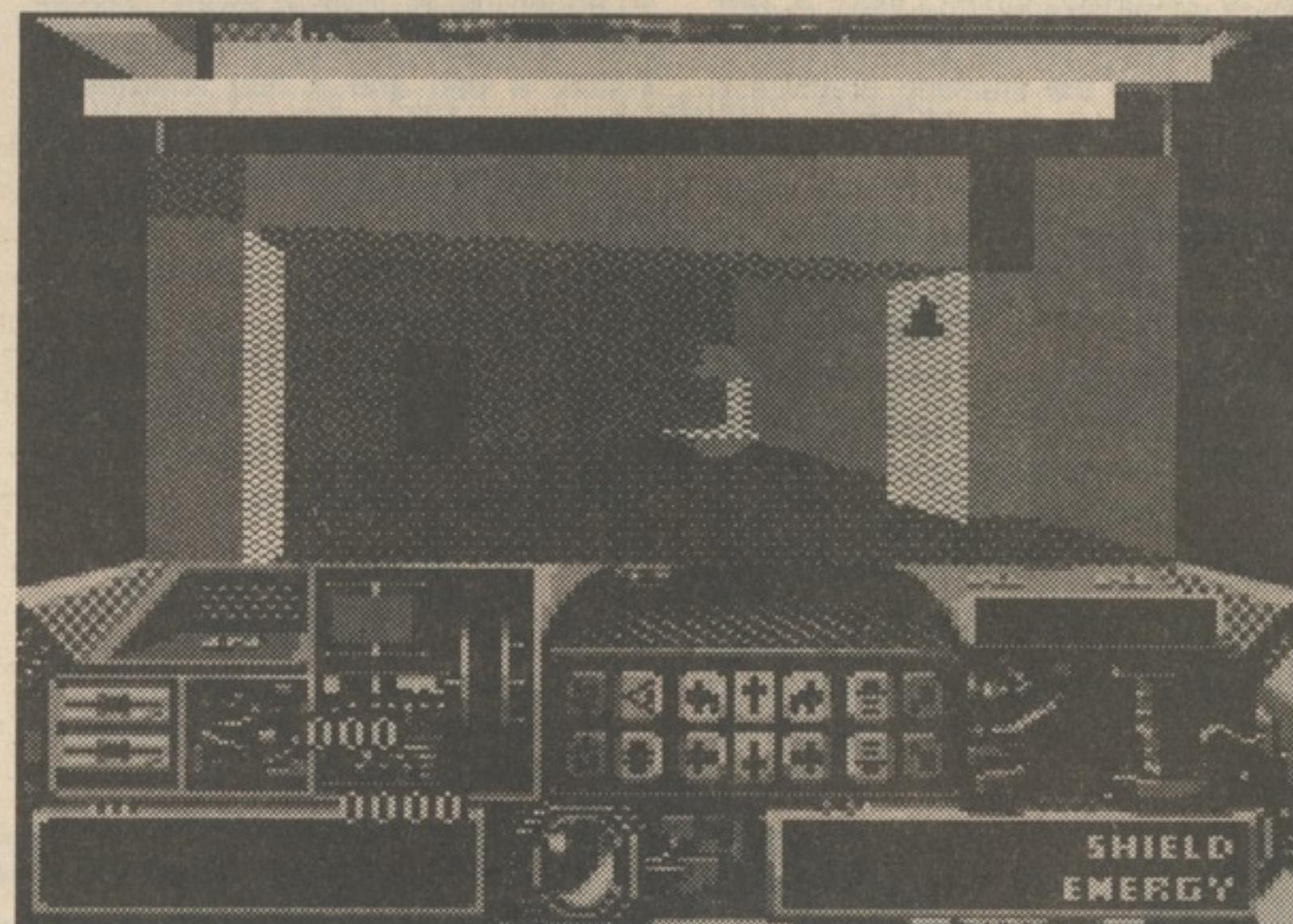
• The next section has John Connor attempting to re-program Arnie, in the hope that he won't go around killing everyone in his path. Enter another sliding puzzle, where a section of Arnie's face has to be re-arranged in the allotted time. As before, this section is nowhere to be seen in the actual film. Ho hum.

• Level seven is similar to level four, with Arnie attempting to escape from the laboratories of Cyberdyne Systems,

## COMBAT FATIGUE

Having trouble with *SAS Combat Simulator*? Try the following Action Replay POKE to make the 'Green Beret' sections much easier: POKE 5490,173

to admit this looks as if it's going to be yet another samey film conversion. *Total Recall* was abysmal, mainly because it was so unoriginal. *Terminator 2* also seems to be a rehash of old ideas, which



The 3-D Construction Kit User Group will give you the help required to produce stunning Freescape games like this

is what licences should try to avoid.

Still, the film is one of the best I've ever seen (with unbelievable special effects), and as a result I'll endeavour to review the game as soon as possible. Don't go away... I'll be back!

## VIRTUAL ASSISTANCE

The 3-D Construction Kit (as covered in Express 145) is an incredible creation tool, but it is also quite complicated, especially for those with little programming experience.

The 3-D Construction Kit User Group, established by Mandy Rodrigues, offers assistance to everyone who owns the 3DKC by way of a bi-monthly, multi-format newsletter.

A yearly subscription costs £12, and for this you receive six issues of the newsletter, plus access to a special telephone helpline. Issue one is superb, and is almost as large as the 3DKC manual itself. Although mainly concerned with the 16-bit versions, it is packed with useful information and helpful tips, as well as some useful diagrams and routines for use in your own programs.

If you are serious about the 3DKC, and would like to get the most out of it, send in your registration card immediately - and while you're about it, join the user group.

Further information can be obtained by writing to: Mandy Rodrigues, 3DKC User Group, 67 Lloyd Street, Llandudno, Gwynedd LL30 2YP enclosing an SAE.

Andrew Roberts



0530  
411485

NEW  
ASHCOM  
CATALOG  
DISK

# ASHCOM

## -PRESENTS-

## THE POWER WITHIN

FROM THE COMPANY WHO BROUGHT YOU THE MOST  
POWERFUL UTILITY TO DATE FOR THE AMIGA A500  
SEE AMIGA FORMAT JULY ISSUE PAGE 139 FOR DETAILS

NEW! Ashcom catalog disk, many features, great value £1.00 inc VAT & P&P.  
FREE! ASHCOM CATALOG DISK WITH EVERY ORDER

NEW! ASHCOM UTILITY DISK. This disk is full of powerful tools for the beginner to the advanced user.  
This disk will provide you with all necessary tools to get the most out of your Amiga... £4.95 inc VAT & P&P

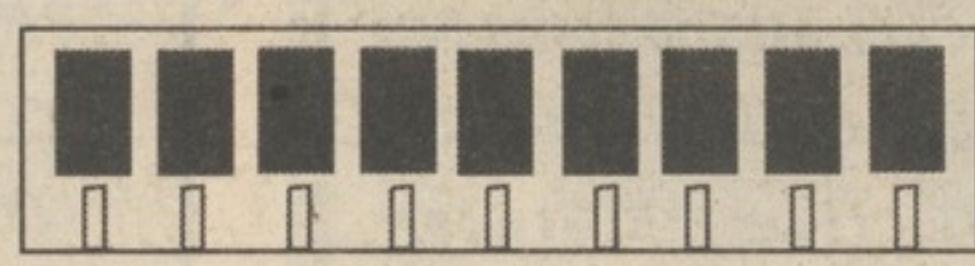
**MEMORY UPGRADES:**

A500 1/2 Meg with clock	£21.95
A500 1/2 Meg	£19.95
A500 1.8Mb	CALL
Parallel Printer Cable	£5.95

**MEMORY DEVICES:**

Simms 1 Meg *9 80 NS	£33.00
256K*4 (44246 - 80)	£4.00
256K*1 (41256 - 80)	£1.00

**NEW LOW PRICES!**



ONLY FROM ASHCOM COMMODORE REGISTERED DEVELOPER..  
ALL PRODUCTS COME WITH A 1 YEAR WARRANTY.  
ALL ORDERS DESPATCHED SAME DAY OTHERWISE WITHIN 24 HOURS.  
ALL PRICES INCLUDE VAT & P&P

Only from ASHCOM, 10 The Green, Ashby-De-La-Zouch, Leicestershire, LE6 5JU  
Telephone: (0530) 411485 Fax: (0530) 414433  
MON - FRI 9.30 - 5.30 SAT 9.30 - 4.00



0530  
411485

ASHCOM  
UTILITIES DISK  
"GREAT VALUE"

## MACHINE SPECIFICS

## SPECTRUM

- Fighting fantasy on the Speccy in *Hero Quest*
- Speccy Public Domain alive and kicking
- Rainbow Islands hacked to pieces

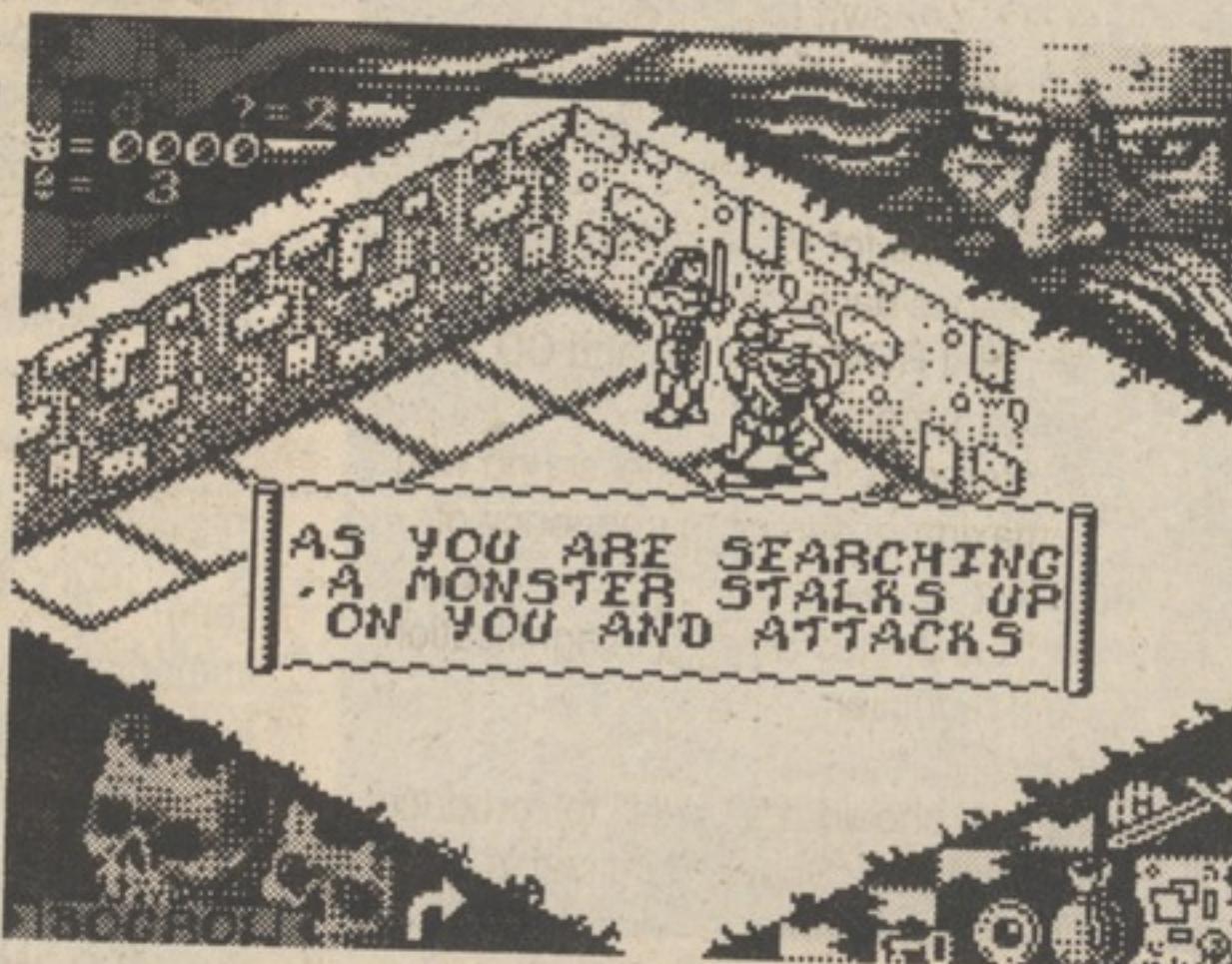
## PLAY YOUR ROLE

It's not often a Speccy game puts you in the role of a Barbarian, Elf, Dwarf or Wizard, drops you in a dark dungeon and expects you to find treasures and rescue princesses, is it?

Well, at least a few days since the last one comes *Hero Quest*, the computer version of the role playing board game. Instead of making do with lots of little plastic figures that the dog chews, you have glorious 3-D Speccivision to play around with as you control the characters through ten levels of dungeons and dragons.

Each level has a different problem for you to tackle. You have to buy your weapons and food before entering each level, which are populated with the usual collection of orcs, trolls and ogres.

*Hero Quest* is initially difficult to play. You have to



• *Hero Quest* is possibly the best attempt at producing a role playing game on the Spectrum yet

claw your way up a mountainous learning curve and struggle with poor cursor control and complicated menus.

After a while, though, you should be able to progress further than a few minutes into the game, and experience some more of the stunning graphics it has to offer.

Role playing-type games have never worked very well on computer but this is a good attempt. If you like the original board game or fantasy-style adventures generally this should be right up your dark, winding passage with exits to the north, south and east.

*Hero Quest* is £9.99 from Gremlin.

## SAMCO IS ONE!

SAMCO, the company formed from the ashes of Miles Gordon Technology, is one year old, so a jolly happy birthday to all concerned.

As way of celebration the company is producing a limited edition Coupé pack. The £20 pack contains a SAM T-shirt, a pen and a first anniversary disk, apparently packed to bursting point with playable demos and the like.

Let's hope the Coupé's partial recovery continues in the next 12 months.

Contact SAMCO on 0792 700300 for more details of the pack and the company's long-awaited SAM mouse.

## EXIT SPECCY SECTOR

A sad farewell this week to The Speccy Sector, one of the small but devoted band of Spectrum Public Domain libraries. Head librarian Owen Brown is off to University and has wisely decided to fold up his worthwhile little operation.

The considerable amount of

PD on his shelves isn't going to waste, though. Owen is keen to keep all his PD in circulation and is sending his range of programs to other PD libraries.

He asks me to thank all those who have sent software to him and also requests the address of other PD suppliers to whom he can donate his impressive collection.

The Spectrum public domain outfits I know about are:

- 8-BIT PUBLIC DOMAIN, 1 Northolme Close, Grays, Essex RM16 2NX.
- GARNER DESIGNS PUBLISHING, 57 Lovers Walk, Dunstable, Bedfordshire LU5 4BG.
- CHEZRON SOFTWARE, 605 Loughborough Road, Birstall, Leicester LE4 4NJ.

If you know of any more pass on the info to me at the usual address.

One name that can soon be added to the above list is that of our old friends at ZAT magazine (which can be acquired from PO BOX 488, Tweedale, Telford, Shropshire TF7 4SU.)

The editor of this esteemed organ, David Ledbury, tells me he's interested in starting a PD library for poor undernourished Spectrum-types. So he's currently on the look out for lots of PD programs with which to fill his currently bare library shelves.

If you've written a program of any description that others might find interesting, do the right thing and whack

## AVENIR COMPUTERS Ltd

## COMPUTERS

Goldstar yr212 12Mb 286 with VGA colour, 40Mb H/Drive, 2Mb RAM & more £789.

Amstrad ALT 286 Laptop VGA, 20Mb H/Drive DOS etc ONLY £999

AV-POWER PC, 386 20Mb SX VGA 40Mb H/DRIVE Inc Mouse & Timeworks DTP £999 + VAT  
Also from Osicom, Laser, IBM & more.

## No 1 in LINCOLNSHIRE

## SOFTWARE

Timeworks V2 (NEW) £99/Deskpress £179  
Timeworks Writer £39, Swiftcalc £39  
DATAMANAGER PROFESSIONAL £49  
GEOWORKS "ENSEMBLE" ONLY £99  
Lots more software Windows/DOS  
We can get it for you. Please call.

## PRINTERS

CANON BUBBLE JET PRINTERS LASER QUALITY

BJ 10e Portable £199

BJ300/330 Desktop 80/136 COL & CALL AUG/SEP OFFER

CANON LBP4 LASER PRINTER, 2Mb & A4 TRAY ONLY £699

ROLAND A4 SKETCHMATE PLOTTER (PORTABLE) £349

MT 730/735 PORTABLE LASER PRINTER ONLY £599

LOTS MORE PRINTERS FROM CITIZEN, HP, IBM, STAR, EPSON

## SECOND USER

XT 10Mb, 20Mb H/Drive, Mono £275  
AT 12Mb, 40Mb H/Drive, VGA £599  
PRINTERS FROM £50, LASERS £299  
COMPAQ SLT 386, 2Mb RAM, 60Mb H/DRIVE INC BASE STATION £2800  
CANON BJ10 PORTABLE INKJET £90  
LOTS MORE. CALL. BUYING OR SELLING.

**CALL 0529 240082 (Howard) 240873 (Darren)**

11 High Street, Billingborough, Slowford, Lincs NG34 0QA. Add £6 p&p + VAT at 17.5%

## ADVENTURE CONVENTION

Mystic adventure playing people might be interested in a meeting of fellow axe-wielding troll bashers organised by excellent enthusiasts' mag, *Adventure Probe*. Its annual convention is due to be held on Saturday 26 October in the Royal Angus Thistle Hotel, St Chads, Queensway, Birmingham. For more details send an SAE to Mandy Rodrigues, 67 Lloyd Street, Llandudno, Gwynedd LL30 2YP.

Copies of *Probe* cost £1.50 each and if adventures are your thang you'll be wanting to invest in an issue.

it into the Public Domain by sending it to any or all of the above. We'd be your best friend forever!

## POWER UP POKE

If you treated yourself to Ocean's excellent *Power Up* compilation recently you'll be only too aware that one of the very best things on it is the very fluffy *Rainbow Islands*.

You'll doubtless also be fully aware of how hard the damned thing is. Which is where our friend Alan Jones comes riding in, bearing infinite lives to save the day yet again.

Here's a hack that should sort the annoyingly cutesy thing out once and for all. Simply type the listing out in its entirety, SAVE to tape for future use, RUN and then start your *Rainbow Islands* game tape from the beginning.

And if you're smug enough to have a Multiface you don't even need to bother with all that nonsense – simply POKE 65111,0 for infinite lives in the cassette version.

```
5 REM RAINBOW ISLANDS
10 REM WRITTEN BY ALAN JONES
20 FOR F=16384 TO 16453
30 READ A: POKE F,A: NEXT F
40 RANDOMIZE USR 16384
50 DATA 221,33,203,92,17
60 DATA 30,15,62,255,55
70 DATA 205,86,5,48,241
80 DATA 33,149,98,54,195
90 DATA 35,54,30,35,54
100 DATA 64,49,224,92,201
110 DATA 33,138,11,34,145
120 DATA 130,62,201,50,187
130 DATA 128,201,33,229,130
140 DATA 22,100,1,0,1
150 DATA 89,115,35,114,33
160 DATA 62,64,237,176,195
170 DATA 161,130,62,217,50
180 DATA 59,254,195,122,163
```

Ta again Alan! Incidentally, you might be interested to know the same talented hacker is planning to publish a Multiface poke booklet. More details as soon as Alan gives them to me.

Robin Alway

## CONSOLES

- CD turns Sega into the most powerful console
- \$1,000,000 Lemmings set for the consoles
- Bare Knuckle proves there's life after SONIC?

## SEGA CD-ROM

When is a CD-ROM player not just a CD-ROM player? When it's Sega's new CD-ROM add-on.

The unit will be launched at the end of the year, and will feature some beefy hardware, including:

- It's very own MC68000 CPU, running at an incredible 12.5MHz
- 6Mbit of RAM for program and other data
- 512kbytes for PCM wave-form data
- 64kbytes back-up data
- 1Mbit ROM for BIOS and CD player program
- Stereo PCM 8 channel sound with a maximum sampling frequency of 32kHz.
- Plus 2-axes rotation, magnification and reduction

So it should be able to produce games like the Super Famicom's *Pilot Wings* with no trouble.

Incidentally, the Super Famicom only has 1-axis rotation, but *Pilot Wings* contains a special chip for 2-axes!

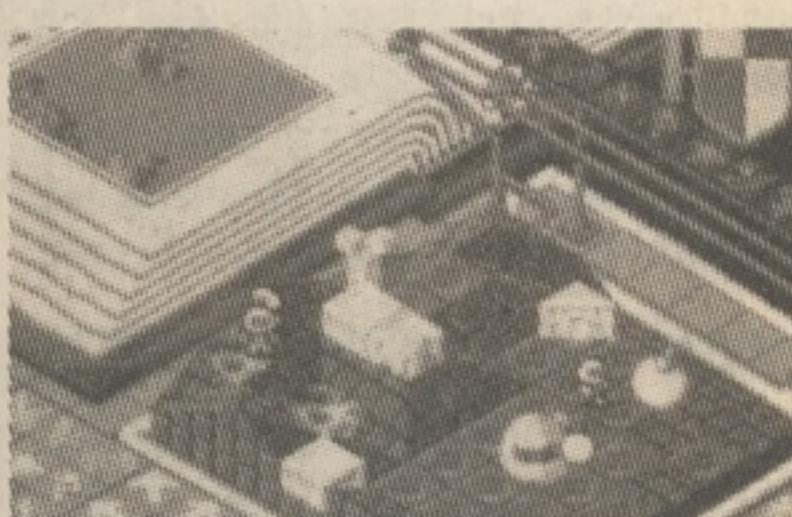
All this for 50,000 yen (£220), making the Megadrive the most powerful console around.

Unfortunately, most of the games currently in development for the Mega-CD from Japan are Role playing Games (RPGs), strategy or adventure games.

## PC ENGINE CD-ROM

NEC will be releasing its 2Mb System Card 3.0 for the PC Engine CD-ROM in the Autumn.

I recommend all CD-ROM owners to  
Continued on next page ▶



• The CD-ROM version of *Populous* for the PC Engine will feature some specially produced extra graphics

## Great Disks plus Free Gifts!!

3.5" DSDD Disks, box of 10 with labels  
These are **not** bulk disks. Only £3.99 inc. VAT

3.5" High Density, box of 10 with labels  
These are **not** bulk disks. Only £6.99 inc. VAT

5.25" DSDD 48tpi, box of 10 with labels  
These are **not** bulk disks. Only £2.50 inc. VAT

3" CF2 (for Amstrad/Sinclair). Bulk disks.  
10 Disks £6.50 25 for £15.00 50 for £27.50  
Larger quantities please ask for a quote

**Buy any 200 disks and get a free  
Profex Stereo 'walkman' (RRP £19.95)**

Carriage: 10-29 Disks £1.50, 30-49 £2.50  
50-100 £3.50, Over 100 Disks ask.

E&OE



COMPUTERS BOUGHT FOR CASH



Once Bytten

39 Marling Way, Gravesend, Kent, DA12 4DW.  
Tel: 0474 567964. Fax 0474 537172

## TERMINAL

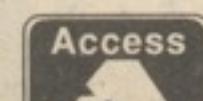
80286-16 inc ETHERNET

VGA - 1.44 etc MINI CASE

£595

TEL: 0922 616733  
FAX: 616737

All prices exclude Vat. P&P U.K. £7.50  
By Insured carrier



NDT - Unit 18, Corporation  
St West, Walsall, West  
Midlands WS1 4DU

## MACHINE SPECIFICS

buy it, as most of the future CD-ROM titles will use the new card which including *Prince of Persia*, *Raiden Trad* and *Populous*, which features extra graphics like the promised lands data disk on the ST/Amiga.

Hudson will also release a memory card called the *Tennokoe* Bank. This is a back-up memory card with four times the memory of the CD-ROM contained in four banks.

So, if your CD-ROM back-up memory is full and you don't want to remove anything, you can dump the entire lot onto the card, and fetch it back when you have enough room.

### A MILLION LEMMINGS

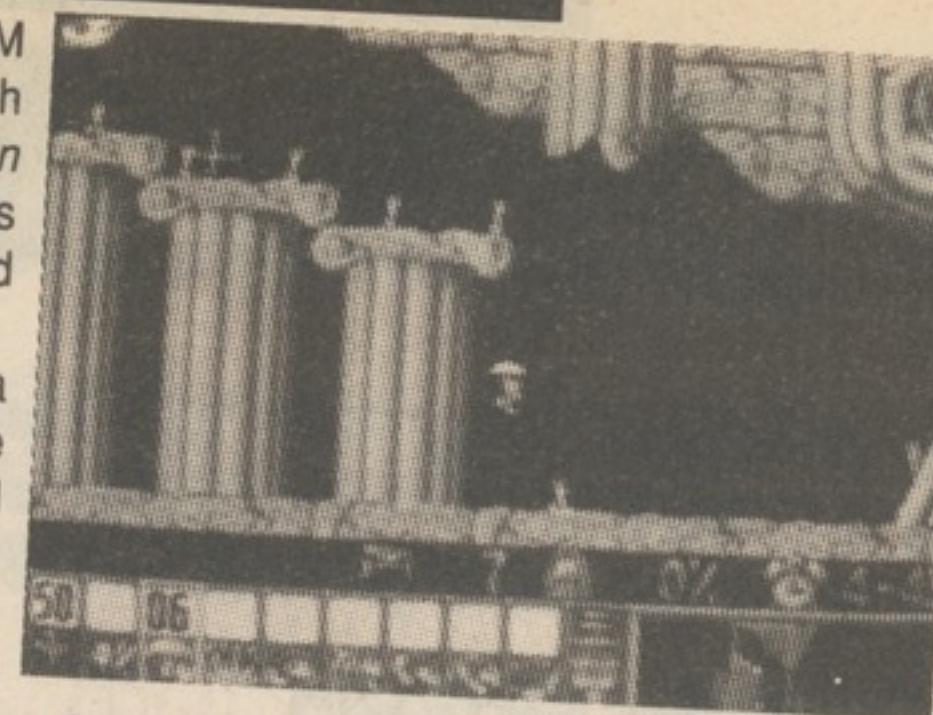
It's been rumoured that Sun Electronics has paid out \$1million for the rights to Psygnosis' cute game, *Lemmings*.

Apparently, Nintendo made a bid too, but Psygnosis' asking price was too steep even for the Japanese giant!

The game is currently in development for the Super Famicom and, considering Sunsoft was the company which bought the rights for *Batman* and converted the game to all major formats, it's likely *Lemmings* will hit whatever console you happen to own.

### NOT SO FINAL FIGHT

If you have a Megadrive, and you've bought *Sonic The Hedgehog* but you can't decide what game to get next, then I suggest you rush out and grab a copy of *Bare Knuckle* (*Street of Rage*) by Sega on import.



• Lemmings for the Super Famicom, shown here, displays the larger icons used with the console versions of the cutesy hit game

Basically, the game is a right rip-off of Capcom's *Final Fight* in every way apart from a few minor touches. Just like *Final Fight*, you have a choice of three

## HOW TO BE SIMPLY SUPER AT R-TYPE

Talking of cheats, here's one for Irem's *Super R-Type* on the Super Famicom.

Bring up the Option screen, then press the TOP RIGHT button nine times (it just happens, your ship is called the R-9), then press UP nine times and you will hear a noise.

Next, start the game. Pause, then press TOP RIGHT, A and Select together a few times until 01 appears in the bottom left of the screen.

You can then choose to start from any level from one to seven by moving up and down. Note that 11-17 is the next difficulty up, and if set in Hard mode, you'll go into PRO mode!!

To start, just press START.

Personally, I don't like the game. Although I'm a great fan of the coin-op, I think the Super Famicom version just slows down too much. Nintendo really should have stuck in a faster processor.

street fighters and two-player action. The fighters can perform similar moves including flying kicks, back elbow, and suplex, plus the novel move of throwing your partner at the opponents!

The enemies include women with whips, fat baldies and fire jugglers.

The game plays exceptionally well, which is not surprising as the team behind it was responsible for *Super Shinobi*. In fact, it's worth getting just for the funky house music!!

• Contact Console Concepts on (0782 712759).

## KONAMI CHEATS

Most Konami games have a cheat mode that can usually be accessed by pressing the following combinations - Up, Up, Down, Down, Left, Right, Left, Right, Button B, Button A.

In the case of the Super Famicom, use the top Left and Right buttons on *Gradius III*.

and *Castlevania*. And, as they say, if the first product is good why not make a sequel? Which is exactly what Konami has done. All three games are due to make a comeback in the highly original form of *Nemesis II*, *TMNT 2* and *Castlevania II*.

## THE GREATEST CONSOLE MAGAZINE

There are quite a few console specific magazines available now, not only commercial ones, but a number of fanzines have popped up recently. But there's one that stands out from the crowd, which has been going for over two years.

The monthly(ish) alternative fanzine is packed with the latest news, reviews, tips, humour and gossip, and it's called *Electric Brain*.

For a FREE sample copy, send a large SAE to: 125 Arnold Road, Bestwood Estate, Nottingham. NG5 5HR. You won't regret it.

Onn Lee

# MEMOREX COMPUTER SUPPLIES

### MEMOREX BRANDED DISKETTES

1 Box 10 10+

3.5" DS DD 720K	£7.80	£7.40
3.5" DS HD 1.44Mb	£12.80	£11.90
5.25" DS DD 500K	£4.90	£4.60
5.25" DS QD 1Mb	£5.80	£5.50
5.25" DS HD 1.2Mb	£7.80	£7.40

### MEMOREX BRANDED COLOURED

(Yellow, blue, orange, red, green) 2 of each colour per box

3.5" DS DD 720K	£8.90	£8.10
5.25" DS DD 500K	£6.80	£6.20

### PLAIN LABEL DISKETTES

1 Box 10 10+

3.5" DS DD 720K	£4.40	£4.00
3.5" DS HD 1.44Mb	£6.60	£6.10
5.25" DS DD 500K	£3.80	£3.40
5.25" DS QD 1Mb	£4.10	£3.70
5.25" DS HD 1.2Mb	£5.70	£5.20

### PLAIN LABEL COLOURED

(Yellow, orange, red, green, white) 2 of each colour per box

3.5" DS DD 720K	£5.20	£4.90
5.25" DS DD 500K	£5.00	£4.80

### PRINTER RIBBONS

#### AMSTRAD

2 6 12

8256/8512/LQ3500MS £4.10 £3.85 £3.50

8526/8512/LQ3500FA £4.10 £3.85 £3.50

DMP2000/3000 £3.50 £3.20 £3.00

DMP3160/3250 £3.50 £3.20 £3.00

DMP4000 £4.50 £4.20 £3.90

LQ5000DI £5.50 £4.70 £4.40

PCW9512MS £3.50 £3.20 £3.00

BROTHER

HR5 £3.30 £3.00 £2.80

HR15/20/25/35/40MS £3.30 £3.00 £2.80

HR15/20/25/35/40FA £3.50 £3.10 £2.90

M1009/1109/1209/1224 £3.50 £3.20 £3.00

M1409 £4.50 £4.20 £3.60

M1509/1709 £5.40 £5.00 £4.70

M1724 £4.70 £4.40 £4.20

CITIZEN

120D/180E/LSP10/100 £3.20 £2.90 £2.80

HQP40 £3.30 £3.00 £2.80

HQP40 colour £23.00 £21.00 £20.80

HQP45 £4.90 £4.50 £4.30

MSP10E/40/50 £2.70 £2.50 £2.30

MSP10E/40/50/R £2.70 £2.50 £2.30

MSP15E/25/45/55 £3.50 £3.20 £3.00

Premiere 35MS £2.50 £2.30 £2.10

Premiere 35FA £2.80 £2.50 £2.30

Swift 24 £3.30 £3.00 £2.80

Swift 24 colour £18.30 £17.00 £15.90

#### EPSON

2 6 12

EX800/EX1000 £3.60 £3.30 £3.10

FX100/105/1000/1050 £3.50 £3.20 £3.00

LQ1000/LQ1050 £3.90 £3.60 £3.40

LX400/800/850 £2.80 £2.50 £2.30

MX/FX80/85/800/850 £2.80 £2.50 £2.30

LQ400/500/550/800/850 £3.30 £3.00 £2.80

LQ860/1060/2550 £4.20 £3.90 £3.60

PANASONIC

KXP1080/81/82/83 £3.30 £3.00 £2.80

KXP1124 £3.30 £3.00 £2.80

KXP1180 £3.30 £3.00 £2.80

KXP3131/3151MS £2.20 £1.90 £1.60

KXP3131/3151FA £2.60 £2.40 £2.30

KXP1540 £4.50 £4.20 £3.90

KXP1592/1595 £3.30 £3.00 £2.80

STAR

DP510/DP515 £1.60 £1.30 £1.20

GEMINI 10X/SG10/SG15 £1.60 £1.30 £1.20

LC10/NX1000 £2.40 £2.20 £2.10

LC10 colour/rainbow £8.10 £7.50 £7.00

LC15/FR10/FR15 £3.30 £3.10 £2.80

LC2410/LC2415 £3.30 £3.10 £2.80

NB24-10 £4.70 £4.30 £4.00

NB24-15/NB15 £5.10 £4.70 £4.40

NO10/NL10/NR10 £4.20 £3.80 £3.60

NO15/NR15/NX15 £4.60 £4.30 £4.00

Powertype MS £2.20 £1.90 £1.60

### BRANDED ORIGINAL TONER CARTRIDGES

#### CANON/HP/WANG

LPB-8/HP1 £58.00 £55.50

LPB-8II/HPII £58.00 £55.50

LPB-4/HPIIIR £58.00 £55.50

PPB-3/HP3Si £112.00 £107.00

#### DATA PRODUCTS

LZR 2600 pkd 6 £107.00 £97.00

LZR 1200 pkd 6 £118.00

# Studio Software Computing

*The BEST choice  
for all your computer needs.*  
**20 Oldfield Circus, Off Whitton Avenue  
West, Northolt, Middlesex.  
Telephone 081 423 8773**  
**Opening times: Mon-Sat 9.00am - 5.00pm**

## MEGADRIVE GAMES



John Maddens Football.....	£34.00	Strider.....	£29.00
Bonanza Bros.....	£28.50	Hellfire .....	£25.00
Sonic The Hedgehog .....	£30.00	Eswat.....	£25.00
Ghouls/Ghosts.....	£30.00	Dick Tracey.....	£27.00
Golden Axe.....	£28.00	PGA Tour Golf.....	£32.00
Thunderforce 3 .....	£30.00	Wonderboy 3.....	£25.00
Super Monaco GP.....	£31.00	Midnight Resistance .....	£31.00
Fire Mustang.....	£30.00		

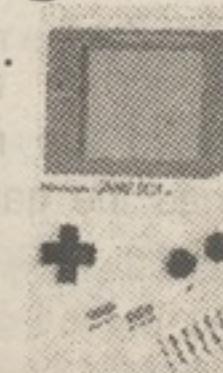
## Super Famicom £125.00

### SEGA MEGADRIVE

PAL Megadrive.....	£75.00
SCART Megadrive .....	£75.00
UK/Jap Convertor .....	£14.00

### SEGA GAMEGEAR

Gamegear + 2 games .....	£140.00
2 player lead ...	£20.00



### Gameboys .....



### GAMEGEAR GAMES

Golf.....	£22.00	Mappy.....	£22.00
Super Shinobi .....	£22.00	Gorby.....	£22.00
Head Buster .....	£22.00	Mickey Mouse.....	£22.00

## SPECIAL SEGA SIZZLERS

### SEGA MEGADRIVE AND SONIC

**ONLY £75.00  
(MEGA!!) °**

### ★ EXCLUSIVE ★

We are now taking orders for the SEGA CD-ROM machine at a cool price of £300 (Please note that ordering will take up to 3 weeks)  
SEND NO MONEY NOW - CALL FOR DETAILS

### ALSO

Buy either a Megadrive or Famicom and you will be entered into our mad prize give-away.  
Prize money of £500 smackers given away each month.  
£1000 every six months (combination of the past 6 months)  
AND FINALLY FOR A CHRISTMAS CRACKER PAYOUT.....£5000  
If you like being given money then buy one of these  
MEAN MACHINES.

### HOW TO ENTER COMPETITION

All you have to do is buy your machine from Studio Software, your details will be entered automatically.  
All winners will be notified after the competition.

**Remember if you're not in you can't win.**

Access and Visa welcome. All cheques made payable to:

## STUDIO SOFTWARE COMPUTING

All goods despatched within 72 hours, first class recorded delivery.



# TECH TIPS

**Virus troubles? Does your mouse have a life of its own? Or has your computer developed Amnesia? Find out how to cure these ailments right here**



## Cheap drives?

Omega Projects which advertises in *New Computer Express* (and has been for quite a while), sells a bare SCSI/XT 20Mb HD for £89.95. Also a case PSU pass-thru all-in for £90.

Would you know if it's possible to marry the two and get a 20Mb HD for under 200 smakeroos - and fit it on the side of an Amiga 500?

*D Magell, Cheltenham*

**SIMPLY**, as the drive and power supply stand, you can't just fit them directly to your Amiga. What you could do though, is buy a third-party SCSI interface for your Amiga which would then be able to communicate with the hard drive.

When you consider the price of doing all that though, you would be better off getting a proper Amiga hard drive as then you'd be able to add RAM as well, and there'd be no hardware conflicts either.



## Screen scene

Can you give me some info about where I may get some technical details on monitors in general and SCART especially? I have a 520 STFM Atari and am relatively a new boy to computers.

At present I use a 14-inch Pye as monitor and although I bought it new about three or four months

ago, the resolution (medium) is nothing to write home about. There is no RGB outlet, so signals have to go in via the aerial socket.

I have been retired for 10 years, having been in the TV repair trade for over 25 years, so I am quite conversant with working with high voltages, etc.

Now that my income is now very much curtailed, I am not able to afford a 'Pukka' monitor, so the next best thing is that I convert my existing TV I have several other sets mono/colour of various ages and would also like to make one of these into a High Res. mono monitor, but all enquiries I've made about data, circuit sheets, etc., have come to naught.

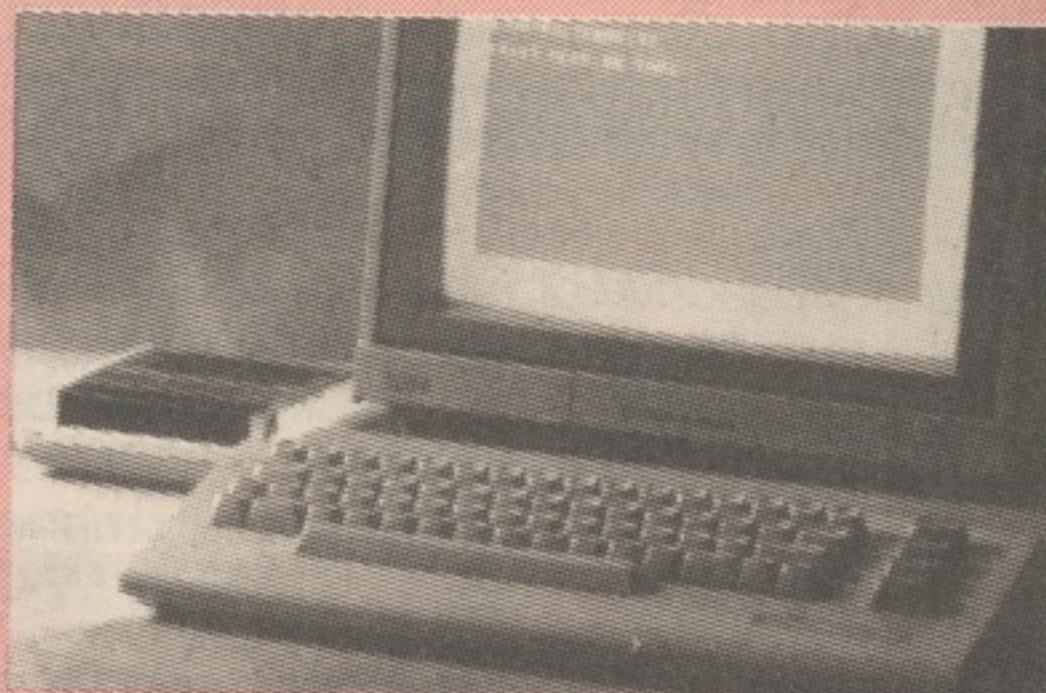
Perhaps you can point me in the right direction.

*Ernest J Woodman, Brighton*

**UNFORTUNATELY** there is no way that you can turn any of your monitors into a high resolution model. Atari's high resolution monitor is a strange beast, and while there are ways of using software to emulate a mono screen, there is no way of adapting other monitors to display information in as high a resolution.

Your best bet would be to either make do with what you've got, running a mono emulator if you want to use mono software, or look into getting a real monochrome monitor.

Maybe you could sell the monitors you've got and use the money you get for them to buy a high resolution monochrome one?



Using a null-modem cable data can be transferred from the C64 and to the ST, without a 5.25-inch disk



## ST connections

Could you please delve deep into your vast array of knowledge and inform me of the answers to my two queries.

1) I have a friend who, after many years of slogging away on a C128, decided to upgrade to an 1040 STFM. Unfortunately he has realised he has a database program from the C128 from which he needs print-outs from. Is it at all possible, knowing that the program worked in 64 mode, that he could print out the data on his ST using the C64 emulator and a 5.25-inch disk drive?

2) I have the opportunity to purchase a cheap monitor. It's an Acorn RGB, as supplied with Archimedes. Could this monitor be of any use to me and my STE?

I wait hopefully for your reply in your excellent mag.  
*Mark Boyer, Peterborough*

**THE EASIEST WAY** to transfer the data from the C128 to the ST would be to use a modem cable. True, the ST can be connected to a 5.25-inch drive, but the Commodore 64/128 has an unusual proprietary disk format which can only be read by Commodore's

'intelligent' disk drives. That way you could transfer the data from the Commodore to the Atari as ASCII and print it out with that machine.

What you should do, in that case, is feed a cable from your 128's expansion port to the serial port of the ST. The 128 doesn't have a standard RS-232 port, so you could either buy or borrow the add-on, or you could just link up via the standard port. If you do manage to get an RS-232 port, connect the two computers by hooking up pin 2 on the C128's end to pin 3 on the ST's end, then pins 3 to 2 and 7 to 7.

Then use a terminal program to transfer the data.

As for your second question, the STE does output colour RGB. If you're lucky the Acorn monitor may have a SCART interface built-in, in which case you can just get a standard cable to connect the two together. However, if the monitor doesn't have such a port, then most likely you'll have to get a custom cable made. For this you'll need to know the pin details of the Acorn monitor and then make, or get someone else to make, the relevant cable. Details of the STE's RGB port will be in your user manual.

key prints up when pressed. This would be the ideal way of incorporating a French character set in your work without the hassles of changing the keyboard layout.

For a demo version of *Wordworth*, you could order a back issue of *Amiga Format*, Issue 24 which can be obtained for £4 from *Amiga Format Subscriptions*, Freepost, Somerton TA11 7BR, stating the issue number and your relevant details.

Other than that, I can't say much more. It would be better to try a few word processors yourself and see which ones you can work with. Word processors are very much a personal thing, and having lots of features doesn't always mean that you'll be able to use one to your liking. See if you can find a co-operative software dealer somewhere.

## TIP! Modem support

In reply to one of your readers who was a bit troubled with the VTX5000 modem, let me give some help on the subject.

The problem might lie in that the VTX might not be compatible with the type of Spectrum you have. The one supplier I know that has both a 48K (including grey +2s) and a +2 and +3 version is BG Services. They can supply the former for £15 and the latter for £20. The VTXs have built-in comms software on ROM. This can be used to access Micronet, Phonebase, etc. As Keith said, software will have to be bought if you want to use a standard BBS. Doctor Scroll will do the job and is available from BG for £5.

If I were you I would send back (if possible) your old VTX and ask BG for a list of modem equipment, etc. The VTX is very old in design and is not for the faint hearted! However, BG is selling a top-of-the-range Pace Linnet for £45. In my opinion it is a much better choice. This modem is fully automatic.

BG Services can be reached at: 64 Roebuck Road, Chessington, Surrey, KT9 1JX.

I hope I have been of help.  
Adam D'Amato, Cambridge

**THANKS FOR THE TIP.** As you say, the VTX range is getting on a bit now and it could be useful for some readers to know where they can buy this modem and get support for it.

## Help! Dregs from down under

I am writing to you in the hope that you or an Amiga owning *Express* reader has some experience with what *VirusX 4.01* diagnoses as the 'Australian Parasite' virus. This virus is different as it does not live in the bootblock, or, as far as I can tell, in any file.

This virus is triggered by simply inserting the disk in the



## Manic mouse

I've been using an Atari STE for just over 11/2 years and it has been operating perfectly. Until a couple of days ago.

Everything seemed OK when I switched it on. But when I started moving the mouse, apart from moving up and down, the pointer on the screen only moved in one other direction, towards the right. This was in low resolution. It moves in the opposite direction in medium resolution.

Thinking there was something wrong with the mouse, I plugged in a new mouse I had bought a few weeks ago. But it didn't seem to make any difference.

Have you any idea what the problem is? Please help. At the moment I can't use most of my software.

Islam Uddin, London

**OK, THERE ARE A FEW SUGGESTIONS** that I can make. First, when you first turn on your STE make sure you haven't got any of the mouse buttons pushed down.

Second, if you've got a joystick plugged in, make sure the auto-fire switch isn't on.

Also, make sure that none of your keys on your keyboard are pushed down when you turn the machine on, either. If any of these devices are being pushed down, then it could upset the STE's input/output device.

That said, if your mouse pointer is still misbehaving, then

drive. *No files need be executed.*

An example of this is that, say, I have Workbench up and running, I also have KDVIII running watching the memory. All is fine until I insert the virus infected disk into the drive, *KDVIII* then says that Coolcapture has been altered and that the trackdisk device is being re-routed to something. I have not executed any files or booted the disk. All I have done is put the disk into the drive, the disk's icon appears and the virus is let loose.

Surely this virus cannot be living in the directory of the disk?

I have also noticed that the virus creates a disk-validator in the L directory, even if there is no L directory on the disk.

Please can somebody tell me how to get rid of this virus, as it also has the added feature of corrupting disks!

PS. You cannot simply delete the L/disk-validator file as the virus simply re-installs it, and seem to move somewhere else! To no avail I have used *VirusX*, *ZeroVirus*, *Viruscope*, *Master Virus Killer* and *KDVIII* to remove it.

Michael Flanz, Peterborough

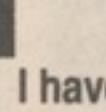
**THE ONLY THING** I can suggest is that you try using a more up-to-date virus killer, such as *Master Virus Killer II* which is one of the best around. In fact, we may be putting a copy of this on a forthcoming Cover Disk. Stay tuned...



## A strange mix...

In *Express* issue 145 Bob Holland wanted to obtain a copy of BeebDOS. Well, if he hasn't got a copy already he can get one from Watford Electronics (phone 0923 37774 or fax 0923 33642) for around £40 + VAT.

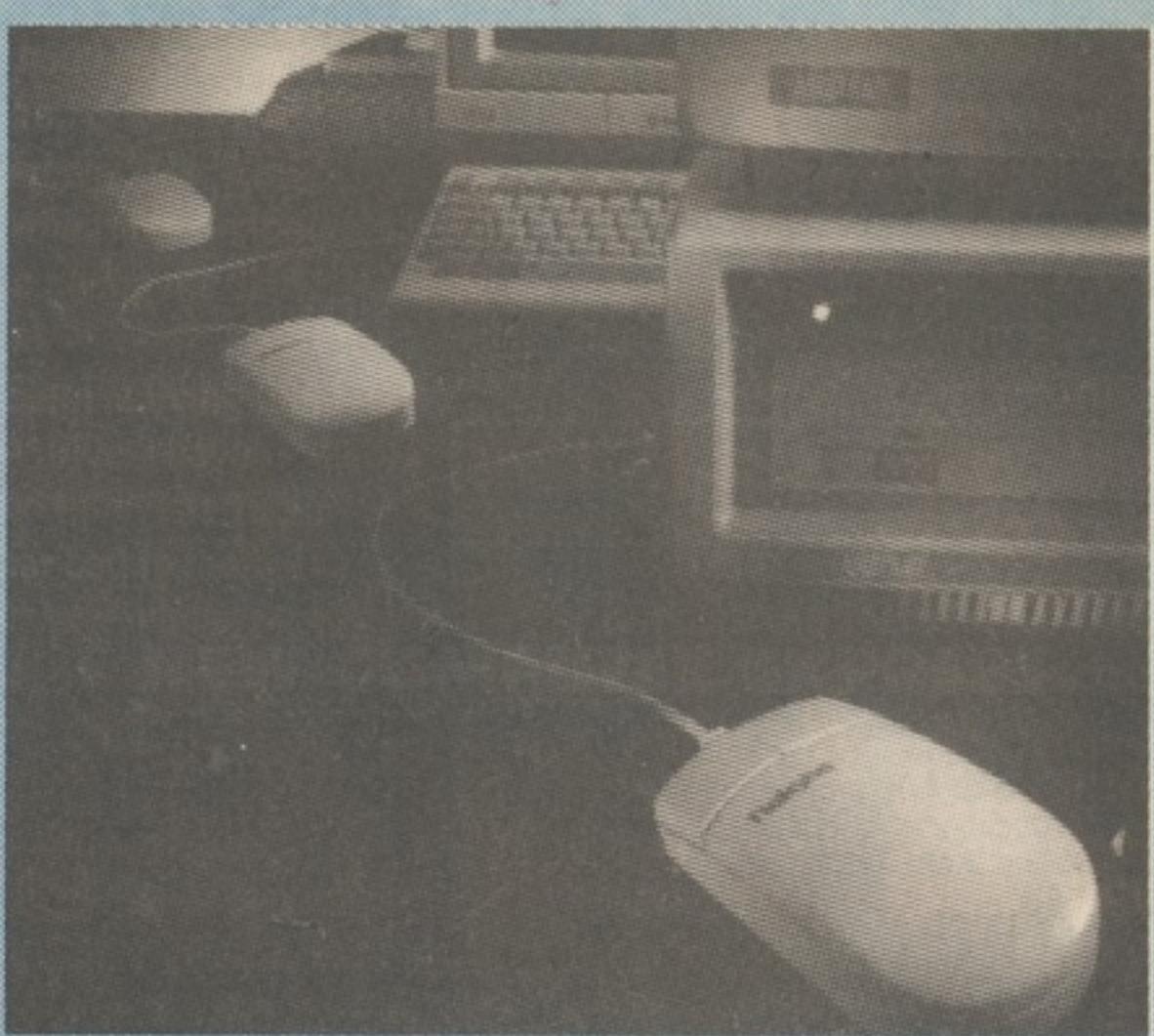
In issue 146 M Gulamali wanted to transfer work from a



## RADical!

I have an Amiga A500 with an extra 1/2 meg and second drive. Recently I was given a 2Mb 'Mini-Meg' expansion which fits on the side. It works fine giving me 3Mb of memory.

My first problem is using the recoverable RAM drive. I have made the changes to my startup-sequence as described in the



• When your mouse moves in a different direction from the one it's supposed to, it's a good idea to see if any of your machine's input devices are depressed when you turn the machine on. If they are depressed, give them a dose of valium

there could be something wrong with your hardware, possibly in the keyboard area, and you will need to get that seen to by a repair company.

Extras manual and all seems OK until I reboot. Everything that was in RAD: has disappeared!

Secondly, I occasionally get an extra 'pointer' left behind when opening a menu or window. This happens in *Deluxe Paint* and a demo copy of *REAL 3D*. In DP it happens every time I call up the palette by pressing 'p', but only if the pointer is in the bottom right hand corner of the screen.

The only way to get rid of it is to open the palette again when the pointer isn't in the bottom right of the screen, or to swap to the spare screen. It is as though I have got two pointers and one gets forgotten about when I open something. Is it a virus? I have checked all my disks with *VirusX* and they are clean.

Is my machine suffering from overwork? Does it need a (long) holiday at FMG?

Andrew Jones, Penge

**FOR YOUR MEMORY PROBLEM** (the computer's that is...), the problem could be do with the amount of chip memory you have. If you do have 1Mb of chip memory, you must specify the -r option for the setpatch command in the startup-sequence.

Otherwise, both your problems indicate that you may have a hardware fault with the memory, for instance some of the RAM chips may not be working properly. In that case, get it checked out professionally.

## PROBLEMS?

Keith Pomfret might be able to help you so write to:

Keith Pomfret, Tech Tips,  
*New Computer Express*,  
30 Monmouth Street,  
Bath, Avon BA1 2BW

# EXPRESS SALES

◆ ST

- **ATARI 520STFM**, mint, boxed, disks, M16-29 game. Bargain at £160. Also vidi-scan (cost £95). £40. Tel Woking (0483) 764857.
- **1/2 MEG**, internal drive for STFM. £10. Good working order, no case, plus postage, or buyer collects. Ring Eric 0438 755098 daytime.
- **WOODY'S PD**, an ST library where you choose individual programs to fill your disks instead of having to accept ready compiled disks which probably also contain programs you don't want. We let you choose! Tel 0942 715377.
- **PD COMPILATION PACKS**. Six top quality PD disks per pack. Cheques for £5 to Jennix PD. State one of following: Ark, programming, games, demos, D. A's educational. ST's only: Jennix, 66 Abbey Road, Strood, Kent, ME2 3QB.
- **WANT THE BEST PD** deal around? How about this PD disks from 90p. Disk catalogue only £50, listing 500 disks. Send cheques/P.O. cash (Jennix) to: Jennix PD, 66 Abbey Road, Strood, Kent, ME2 3QB.
- **1 MEG STE** turbo pack, 4 months old, lots of software + games, over 60 disks. Also magazines, joystick and mouse, will accept £350 o.n.o. Phone David on (0256) 862616 after 7pm only.
- **CALAMUS** fonts (two) £5 each, not PD. Clipart Image format £3.50 disk. People, sports, border, etc, not PD. Send large SAE for details: 136 Oakdene Crescent, Nuneaton, CV10 0DT.
- **VERY** cheap hardware and software clearout. Please write to: Sid, 13 Harrowdene Close, Wembley, Middlesex, HA9 2JE. Please hurry, prices are very low. SAE appreciated, but not essential.
- **ATARI 1040STFM**, 20Mb HDD, SF314 FDD, SM124 monitor, FM Melody Maker, joysticks, Mice, STOS, loads of games, all boxed and in very good condition, only £450. Call Toby (0252) 616057

★ 4 MB STE ★  
44Mb ICD hard drive, external floppy monitor, replay professional, sampler, data scan professional scanner, real time clock + lots of software; DTP, CAD etc.  
Nearly new £1200.  
Phone 0222 481876.

- **FAST BASIC** computer system with both cartridge and desk versions, plus manual and toolkit. Just £25 secures. Phone Ian 0483 67482.
- **ST GAMES**, Sim City, Premier Collection, Precious Metal, Soccer Mania, Batman, Untouchables, Operation Wolf, Baal, Ballistix, Wizball Backlash, Double Dragon, Powerdrift, Toobin, Menace, Starquake. £6 each. £5 each for more than 1. Phone Malcolm (0460) 72711.

## SOUTH WEST PD

### Atari ST/STE Public Domain from only 66p a disk

Special Offer: We will pick a random 30 disks from our extensive collection and send them to you for only £20.00. Please state ST/STE/½ Meg/1 Meg/DS/SS disk drives, and disks you are mostly interested in i.e. demos, clip art.

Free catalogue with SAE to:

SWPD, 50 Coombe Lane, Torquay, Devon, TQ2 8EA

- **DAATASCAN** hand held personal scanner, hardly used. £80 or swap for Atari SM124 or 125 mono monitor. Tel: 0604 412159.
- **TIMEWORKS** Desktop Publisher and 10 disks of clipart with full instructions and original box. £45. Jim Erskine, 53 Lenaghan Park, Belfast, BT8 4JB. Tel: 0232 794812.
- **WANTED** Atari 520 STFM, just machine and mouse, no software needed. Must be working, £140 o.v.n.o. waiting. Call: 0634 723659 after 6.30pm and ask for Nick.

## AMIGA/ATARI/PC PUBLIC DOMAIN ALL TITLES ONLY 99p\*

3M 3½" double sided DD Disks only 75p\* each.

Bulk 3½" DSDD Disks only 35p\* each.

We buy/sell/exchange original software for all computers.

Phone 051-691 0072  
or stamped addressed envelope to:

P.E.S.

P O Box 32, Wallasey, Merseyside, L44 1ES

\*Minimum quantity 10  
P&P only £1.00

- **SELECT PD** for the ST, for list, send disk or £1 and SAE to R. C. Newman, 22 Hall Road, Leckhampton, Cheltenham, Gloucestershire. Over 100 cheats and free PD on disk. Prices from 35p per disk.

- **ATARI** Mega STE. Not released in UK yet. 16MHz Processor, 2 meg memory. 48 meg hard drive. Expected price over £1100. Brand new, boxed, only £900. 061 427 5616.

- **ST MACHINE** Language, by Abacus books, unwanted present, cost £17. Yours for only £8 +p+p. Tel: 091 3853800.

- **PLEASE** please has anyone got an Amiga TV modulator they can sell me. Will pay up to 15 pounds, will collect from Brighton area only. Call Nick (0273) 673639 or write to: 7 Brede Close, Brighton, BN2 5GR.

- **AMIGA PD** from 18p a titles. Best prices, best service, increasingly expanding library, contact Darryl, 12 Kent Avenue, HFDS, HR9 5AQ.

- **ST GAMES**, 125 original ST games for sale. All originals with instructions prices from £1. Send SAE to 53 Lenaghan Park, Belfast, BT8 4JB.

- **PUBLIC DOMAIN** software for the Atari St, only £1.75 including postage, clipart, games, utilities, exclusive examples, demos, slide shows, send SAE + 50p for catalogue to: Mr G Ogden, Nightshift, 8 Bertelin Road, Stafford, ST16 3JJ.

- **STAR PD** Atari ST PD library, hundreds of quality disks at £1.50 each. Buy three disks and choose one free! Send blank disk and SAE for free PD and our disk based catalogue: Star PD, 1 Solva Road, Clase, Swansea, SA6 7NX.

- **1040 STFM** colour monitor, external drive, LC-10 printer, 100 blank disks, some software + joystick. £400. Tel: (0209) 713766.

- **ATARI 520 STFM** discovery pack, j/s, £150 worth of software, inc F19, Kick -Off, Power Monger etc. Quick sale £170, or swap for Sega Megadrive, UK version, plus games. No import machines please. First offer secures. Tel (081) 986 5171 evenings.

- **PD GROUP** requires a tracker musician, please contact: Mr S Hill, 4 Martlet Avenue, Disley, Stockport, Cheshire, SK12 2JH. Please send a demo if possible.

- **SUPERBASE** Professional v3.2 original with manuals registration card etc. £100. Phone 041 334 0180 (Glasgow) evenings.

## Upgraded from C64 to PC or AMIGA ?

### ● Use your old C64 printer

### ● Read your old disks

Our interface cable and software connects C64 peripherals to any IBM PC Compatible or Amiga except the A1000 - Attached via parallel printer port.

- Use MPS, DPS, VIC, Star, Brother, Seikosha and Citizen printers

- Epson graphics output on dot-matrix printers

- C64 Not required

- 1541 file transfer program

- Fully MS-DOS/AmigaDos compatible

Standard "Ami-64-Link" £35.25

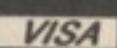
"CBM-PC-Link" £35.25 (State disk size)

Budget\* "Ami-64-Link" £23.50

Prices include VAT and delivery

\* Budget locks Amiga during printing, no performance lost with Standard

**York Electronic Research (0904) 610722**  
The Paddocks, Jockey Lane, Huntington, York YO3 9NE



- **ATARI STFM**, good condition, under guarantee, games, joystick etc. only £150. Also Star LC-10, mint condition, only £60. Also remote car only £50, unused. Write to: R. K., 4B Currents Lane, Harwich, Essex, CO12 3DE.

- **WANTED** Atari 520 STFM with megabyte internal double sided disk drive and mouse, leads, manuals. £160 cash waiting. Tel: 0380 727815 (Devizes, Wiltshire.) Will collect if local.

- **ATARI 2MB STE** with £200 worth of useful software. £350 o.n.o. 25Ms 65Mb hard drive. £450 o.n.o. (For ST, STE only). Ring 061 881 5663.

- **ATARI SM125** mono monitor. £80. STM faulty main unit only £30. Ultimate Ripper, £25. Microsoft Write. £10. Superbase Personal £10. Timewrights DTP. £20. Tel 071 586 6155.

- **1040STE** Family Curriculum pack, 2 months old, extention drive, loads of software magazines, dxt. 10 months warranty left. £350 o.n.o. Tel 091 3853800.

- **STOS** Game Makers manual, by Stephen Hill. If you program in STOS, this programme is an invaluable companion, only £5 +p+p. Tel 091 3853800.

### 100 DS/DD DISKS + 1 x 100 Cap Box + Labels ONLY £40. inc

100 x 3½" Disks  
100 Cap. Box  
100 Labels  
£40.00!!!  
MF2DD

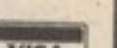
FREE P&P  
Same Day  
despatch on  
Access/Visa/P.O.

Tel: 0977 - 649100 (Fax: 0977 - 643312)  
Mail order only - Loads Atari + Amiga goodies - price list available  
Opening hours:- Mon-Fri 9.30am-7pm/Sat 9.30am - 6pm/Sun 10.00am-3pm

### 100 DS/HD Disks + 1 X 100 Cap Box + 100 labels

KC VIDEO  
6+8 DONCASTER RD  
SOUTH ELMSALL  
NR PONTEFRACT,  
W. YORKS WF9 2HZ

Cheques payable to KC VIDEO



- **ATARI 520ST**, 1Mb RAM, ZX disk drives, SM124 mono monitor, needs external modulator to work with TV. Hence only £225. Phone 081 423 9864 South Harrow.

- **ATARI Mega 4** with AT -Speed and QL Emulators. Some manuals and software. £825. AT-Speed. £150. Will part exchange for good laser printer and/or Psion LZ64 with cash adjustment either way. Tel: 081 889 4276 Tottenham anytime. Very good outfit.

- **ATARI STM** with 2 drives. £200. Atari Lynx, including 4 games. £120. Amiga ext drive. £40. Amiga 16MHz 68000. £30. Amiga software. Phone for list. All originals. Also 1Mb Simms wanted under 100ns. Tel Richard on 0900 825213.

- **ST GAMES** only £3 each! Macadam Bumper, Nitro Boost Challenge, Summer Olympic 3D Pool, Pacland, Pinball Factory, Star wars, Steve Davis Snooker. PC Ditto, Pro Punter. £25 each. All originals and boxed. Call Malcolm. (0460) 72711.

- **PRICE DEDUCTION** 4Mb STE, 9 months old, with external floppy drive. Some serious software, incl Timeworks DTP, Superbase Database, all registered. Also lots of games. Bargain at £440. Tel Oxford. (0993) 845859.

- **STUD** disk magazine, packed each month with public domain programs to suit every body. Send £1.50 for Stud disk 1 to: Shane Rodwell, 19 Collings PLace, Newmarket, Suffolk, CB8 0EX, or write for more information.

- **ATARI SLM804** Laser printer. £390. SH205 20 Meg hard drive, £210. Golden Image scanner + touch up software. £90. Kage Taxan 810 9-PIN printer. £50. All excellent condition. Tel: 071 5866155.

- **SWAP** Atari ST/FM with 40 games and some demos for an Amiga 500, if possible with games and £350. Tel (0277) 373563. Ask for Ian.

- **ATARI STFM** D/S drive, £1400 of top quality software, three joysticks, very good condition. Star SR10 printer, all worth loads of money. All for £290 o.n.o. Phone Adam anytime. 0932 243186.

- **ATARI STFM** D/S drive, loads of software, over £1000 worth. Very good condition. Star SR10 printer. Loads of add ons all for £290. Phone Adam anytime on 0932 243186. This bargain is not to be missed.

- **ST 3D** construction kit. For sale £20. (May swap for Amiga shareware). Tel: 091 385 3800.

- **ATARI ST PD** demos, art packages and utilities, at an amazing price. Send an SAE and blank disk for catalogue with free demos to: State 808 PDL. 3A Old Lanark Road, Carlisle, Scotland, ML8 4HW.

★ **ATARI SF354P**★  
S.S.D inc P.S.U. and cables. £30.  
Also internal ST S.S.D.D. £20, both £40.  
Omar Aysha, C/O Dr Aysha, Lodge Moor  
Hospital, Redmires Road,  
Sheffield, S10 4LH.  
Tel: 630 222 ext 6284 after 7pm.

- **PUBLIC DOMAIN** software for the Atari St, only £1.75 including postage Clip Art, games, utilities, exclusive examples, demos, slide shows. Send SAE + 50p to Mr G Ogden, Nightshift, 8 Bertelin Road, Stafford, ST16 3JJ.

- **ULTIMATE RIPPER (ST)** cartridge, RIP Music etc, from your STE from your ST and music pictures etc from your ST and save to disk easy to use £25. Tel: 091 3853800.

- **WHEN** other pools present you with pornography, State 808 presents you with WWF Slideshows, Robocop slide show, and Back To The Future II slide shows. Simply send a cheque or P.O. payable to £1.95 postage to: State 808 PDL, 39 Old Lanark Road, Carlisle, Scotland, ML8 4HW.

- **ATARI 520STFM** with joystick and software including STOS, excellent condition. Boxed as new, with loads of magazines, many with disks. £230 o.n.o. Ring (0949) 50425 evenings. Including Gauntlet two with four player adaptor.

● ATARI ST software for sale, over 100 games, DTP, database, spread sheet, art etc. All originals with instructions for Lenaghan Park, Belfast, BT8 4JB

● ATARI STFM, over 140 disks, 2 joysticks and accessories. £280 o.n.o. Also Citizen 120D printer with paper, dust cover and leads for an Atari ST £90. Tel: 0302 782122 for details.

● ST PD from Crazy Diamond. 100's of disks, all only £1. Send blank disk and SAE for catalogue and free PD. Crazy Doamind PD, 58 Hillside Road, Sudbury, Suffolk, CO10 6SA.

● TRIANGLE 20Mb hard drive, fully working order on ST(E). For sale due to replacement. £200. Buyer collects. Contact Hatwood Milton Jnr, Lakeside, 1 Glendyne Road, Calderstones, Liverpool, Merseyside, L18 6JR. Fast sale a necessity, postage possible.

● THIRD COAST 65MB hard drive for Atari ST, good condition with software available, eg Neodesk etc. £300. Tel: Maidenhead. 0628 25802

● ATARI 520 STFM, DS drive, SM124 monitor 1Meg 2nd drive, all leads, manuals, books, mouse, four games, 100+ PD disks, blanks, magazines. £240 will split any demo, Birmingham area. Phone Brett. 021 427 9622 buyer collects.

● ED'S PD. Service for Atari ST. We sell PD or swap on 1-4-1 basis. Send your list for details to: Ed's P.D.L., 184 Hatters Lane, High Wycombe, Bucks, HP13 7LY.

## ◆ AMIGA

● ADES PD LIBRARY, all PD less than £1 some even free. Send a fast return to you order, why pay lots when you can pay little. Ades PD, 15 Deanes Close, Dovercourt, Essex, CO12 4JH.

● AMIGA 500 1 meg, 3 drives, all leads and manuals, boxed + 250 disks including PD. All for £300. Ring 0582 608370 after 7pm. Ask for Steve.

● FOR SALE: 1.5 meg expansion card, 512k installed, £40. Publisher choice DTP package £45. Will send by post. Phone 026583 3370 after 5pm for K. K. or write to: 1 Church Pass, Portstewart, BT55 7AF.

● AMIGA A500 hard drive, conner 42 meg hard drive and dataflyer controller 31/2" half height 25MS access time fits A500 or 2000 £350, no offers. Call Jane or ask for details on 0244 811559.

● ATARI ST SOFTWARE. Thirty recent games, including Powermonger, Armour Geddon, Lemmings, F19 Mitank, Lotus, Supercars 2, Speedball 2, Megatrav, Hard Driving II, Heroquest. £15 each or £250 the lot. Phone Mike between 4.30 - 5pm. 0224 663322.

● AMIGA 300 PD disks for sale. Any reasonable offers. Also high density disks (31/2") only 45p per disk. No time wasters please. Write to Robert, 63 North Avenue, Usworth, Washington, Tyne and wear, NE37 2LE.

● HELP I am in need of the Agnus Chip for my CBM A500, who is lonely without me. I also require a keyboard. Please write to: Steve Kennard, 12 Ashwell Road, Bury Street, Edmunds, Suffolk, IP33 3LU.

● AMIGA 1.3, games, manual, leads, D Paint 2. £230. Photon. 0745 824535. N. Wales.

● B500-P YES! B500-P with : 2(!) meg, 68010 processor, full ECS (including 'Flicker Fixing' Paula), RS 1.3, Fatter Agnus, Anti-Click external drive, 2 PSU's, 10 games, 2 joysticks, mouse, modulator etc. Incredible value at £495 o.n.o. Amaze your friends! Phone David (0290) 22335.

● AMIGA 31/2 inch disks used once in Amiga only, £35 for 100 Vidi Amiga Digitiser, £40. Replacement mouse £10. Please telephone 0527 541526.

● BITCOM DEVICES PC-XT board, as new, hardly used, with original Dos 4.01 and latest revision software (12MHz Turbo Option) compatible with just about all PC Software, including games, £180. Tel John. 0229 823812 evenings/weekends.

★ AMIGA GAMES ★  
swaps, Monkey Island, Conquests of Camelot, Metal Mutant, Power Monger.  
Make me an offer.  
Tel Nick: 0242 582471

● FOR SALE. Amiga Atonce PC Emulator, hardly used, few months old, still with registration card, latest software, £140. Also Cumana 3.5 inch external drive, Evesham 0.5 meg RAM expansion. £60 for both. Phone Andrew (0495) 247475 after 6pm.

● AMIGA 2000HD 42Mb Quantum hard drive 3Mb RAM, CM8833 monitor, loads of software, excellent condition. £995 o.n.o. or with Roland CM 32L Syth. Module £1195 o.n.o. Phone Steve on Windsor (0753) 864382 after 7pm.

## COMPUTER REPAIRS

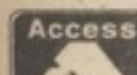
We repair all makes of Computers, Monitors and Printers including I.B.M. and Clones. QUICKLY-RELIABLY AND ECONOMICALLY. We have our own 2000 sq.ft workshops with skilled engineers and computer enthusiasts.

## COMPUTER UPGRADES

It is cheaper to enhance your present P.C. than buy a new one. Let us quote you today.

## COMPUTER SALES

Request our colour brochures on GOLDSTAR, BONDWELL AND DELTA SYSTEMS. ALL AT TRADE PRICES. Our friendly staff live, breathe and talk Computers all day, every day. Full configuration and setup with each system. On-site maintenance included with every sale. CALL US TODAY.



DELTA ELECTRONICS (G.B.) LIMITED  
6 Main Avenue, Moor Park, Middlesex HA6 2HJ  
Tel: 0923 835600 Fax: 0923 835421



● LOTUS 1.2.3. version 2.01, £110. o.v.n.o. Came free with Amstrad computer. Phone Colin (0900) 63326.

● WANTED Amiga Fred Fish disks or similar disk. If you have, then for details tel: Gary. 0473 713715 between 6-9pm only.

● AMIGA PD! Over 400 disks available. You simply send extra blanks for details and listing. Enclose a blank for free demos. David Hopkins, 70 High Street, Delabole, Cornwall, PL33 9AH.

● AMIGA PD from 35p per disk, large range of adult/glamour disks (18+ only) monthly competition to win PD of your choice. Disk for list + demo. L & D PD, 10 Hornbeam Green Pontefract, West Yorks, WF8 2DX.

● AMIGA 500, almost new, bought in December, still boxed, 1/2 meg upgrade, mouse, joystick and software. A real bargain at £400. Phone Lee on 0924 261941.

● AMIGA A500 1.3 + 2 meg internal memory, Syncro Express back-up unit, action replay cartridge, A590, 20 meg hard drive. All boxed and as new. £499. Contact Neil 0425 616605.

● AMIGA PD! Over 400 disks available you simply send extra blanks for my time and costs. SAE for details and listing. Enclose a blank for free demos. David Hopkins, 70 High Street, Delabole, Cornwall, PL33 9AH.

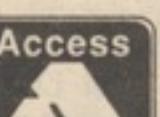
NDT SYSTEMS

80386SX-20

£735

TEL: 0922 616733  
FAX: 616737

All prices exclude Vat. P&P U.K. £7.50  
By Insured carrier



NDT - Unit 18, Corporation  
St West, Walsall, West  
Midlands WS1 4DU

● DATEL Digitizer as reviewed in July edition of Amiga Format, one month old, upgrade to A1500 forces sale. £70. Contact Danny 0692 402927.

● AMIGA Cumana Cax 354 Slimline disk drive box, as new. £40 o.n.o. Print cable + null cable disk drive, unknown fault, offers Reading. 0734 665842.

● CBM AMIGA A500 with half meg upgrade, and over £1200 worth of games, demos and magazines, all in mint condition. Tel 021 447 7005 or 021 449 5463. All goods are boxed. I must be mad.

● DO AMIGA mad females exist? If so, I'd like one as a penpal, age around 20 preferred, not essential. Sense of humour, a must! Please write to: Adam Wright, 33 Great Holme Court, Thorpelands, Northampton, NN3 1YD.

● AMIGA Digiview Gold 4.0. £65. Amiga original, boxed, games, £5 each. X-Copy Professional with hardware, £15. Phone 082751738.

● THE ULTIMATE Amiga set up. All you could ever want, Amiga A500, monitor, extra memory second drive, joysticks, plinth for monitor, TV tuner and over £1000 of software (mainly games). Bargain at £560. Ring Dermot 0276 76156.

● AMIGA A500 + 1/2 meg upgrade, TV modulator, boxed. 2 joysticks, various software + blank disks and boxes, mint condition. £275 o.n.o. Phone David on (0440) 703196.

● FOR SALE A500 + 1/2 meg + 2nd drive + A590 hard drive with 2 meg + 10845 colour monitor + s/w, mouse, joystick. Ring Stephen on 0924 402430 (even) or 407919 (day) Also Superbase Personally 2. £30.

● AMIGA 500 1Mb, mint condition. £260. Lynx system. £50 or atari STE. £250. All item in mint condition. Tel: 081 571 1494 after 6pm.

## Make the most of your advertising

Advertise in this space and you're  
guaranteed to reach  
the 25,000-plus most active  
computer users in Britain  
for as little as £61!  
Call Charlie Nicholls  
on 0225 442244 right now

# EXPRESS SALES

● FOR SALE Amiga Digi View Gold 4.0 £65. Amiga original boxed games, £5 each. X-Copy Pro plus hardware. £15. Phone Ralph 0827 51738.

● GB ROUTE for Amiga, route planner, £25. Also copyist apprentice, music scoring program. £40 or both for just £55. Telephone Daniel on 0795 875898. North Kent area (Sheppen).

● AMIGA 500, almost new, bought in December, still boxed, 1/2 meg upgrade, mouse, joystick and software. A real bargain, at £400. Phone Lee on 0924 261941.

● FATTER AGNUS (ECS) £45 + instruction book (inc 1Mb Chip RAM). 1/2 meg RAM with 5 1Mb demos. £20. Cheque to Julian Smith, 45 Maplecroft Crescent, Wincobank, Sheffield, S9 1DN. 0742 438542. No time wasters please.

● WANTED 68881 or 68882 Co-Pro Chip 20MHz or above, offer £20 for 68881 or £35 for 68882. Phone Ian, Runcorn. (0928) 701222.

● AMIGA HONDA RVF and Bantam AMigaDOS manual, 2nd edition. Swap for Mig 29 or F15 Strike Eagle II. Tel: 0473 713715 between 6-9pm only. No time wasters please. Ask for Gary.

● PC ACCOUNTS software, for sale. Money Manager Plus, Digital Home Accounts, £10 each. Also many accounts, share tracking programs etc. Phone Steve 081 540 6271 eves.

● PHILIPS CM8533 including cable, good condition, but buyer must collect. £135. Contact Mr Medford on 0925 755316. Cheshire area.

● SUPRA HARD SYNC hard card 42Mb, only four months old, hardly used. £280. D Paint III, new £42. Day by day diary programme. £9. All inc p+p. Call 0925 755316 for further details anyone got Superpic to sell.

● WYSE 80286 AT compatible 1Mb RAM, 20Mb hard disk, 5.25" & 3.5" floppy drives, Hercules card & monitor, 102 key keyboard, 2 par, 2 ser, £450. Also Panasonic 1081 printer £70. Steve (0405) 815906 after 7pm or weekends.

● WANTED EXPANDED MEMORY MANAGER for my 386 Amstrad PC, such as EMM386 or QEMM. Will pay. For sale: High speed joystick card with dual inputs only £15. I also want general utilities. Ring Dermot (0276) 76156.

● OLIVETTI M200, 720K disk drive, 20Mb hard disk, excellent condition, boxed with original manuals and disks, hard disk packed to overflowing with archived shareware, £600. Contact David on 091-438 4684, after 6pm.

★ CAD PACKAGE ★  
PC compatible 286 with co-proc. 40Mb HD colour VGA monitor, £650. Autocad v.10 USA edition £600.  
Tel: (0642) 764066.

● CD-ROM PLAYER with PC interface £175. Various CD-ROMs - reference library £30; Microsoft Bookshelf £20; US Atlas £25; World Atlas £25; Time Almanac £30; Bible Library £30; Groliers Encyclopaedia £30; everything for £300. (0344) 484035 (Bracknell).

● WANTED: Olivetti version of MS-DOS 3.3A must be original disks. Manuals not important. Offers to: Andy at 34 Geranium Walk, Colchester, Essex, CO4 3QT. Required for student's PC. 5.25" preferred.

● COMMODORE PC10, business package, keyboard, twin drive 5-3 disk, mono monitor, software inc. Type Tutor, Word proc, etc. All immaculate, in original packing, £300 or exchange for midi equipment. (0484) 541357.

● 40Mb SCSI Seagate hard drive and controller card and cables £100. 40Mb MFM Seagate hard drive, card, cables £100. 20Mb MFM Tandon hard drive, little noisy, but works fine. Tel: (0494) 533801.

## ◆ 8 BIT

● COMPUTERS for sale: Commodore 64 with Gun + £300 worth of software and extras, Apricot PC with monitor and manuals with software and 2 x 31/2" disk drives both £175 for C64. £150 for Apricot PC. Phone 0634 243216.

● BBC BITS: 80TRK disk drive, torch Z80 64K board, mouse, joystick, books, software. £100. Also solidisk four meg 256K RAM/ROM expansion board with manuals + software. £50. Call Wasem Haq. Birmingham. 021 784 2405 evenings.

● TWO-IN-ONE bargain! Amstrad 8256 with monitor, printer, drive, manual, software, books and Sharp MZ-80k Micro with screen + tape in built + software, manual etc. Both only £400. Excellent condition. Ring Wasem 021 784 2405, evenings. Birmingham.

● BBC-B inc View, Back-Up, and printer, driver Rom's, twin 40/80 track teal disk drives with power supply. All boxed and as new. £275. Contact Neil 0425 616605.

## RZF SYSTEMS

### SuperLITE 386SX - 20 Notebook £1399 plus VAT

\* 80386SX - 20MHz \* 1Mb RAM expandable to 5Mb  
\* LIM EMS 4.0 support \* 40Mb Hard Disk \* 1.44Mb Floppy drive \* 83 Key Keyboard \* LCD 640 x 480 VGA 16 grey scale ext monitor port \* One Parallel, 2 serial, AT Keyboard port \* 305x282x56mm 8lbs (3.6Kg) \* Mains/rechargeable battery \* MS-DOS 4.01 & carry case inc. \* Options inc. car adapter, ext. 5.25" FDD, battery pack & ext. battery charger \* 80387 co-processor

13 Camley Park Drive, Maidenhead, Berks, SL6 6QF  
Tel: (0628) 21535 Mobile: (0836) 321658 Fax: (0628) 773562

● FOR SALE Datel Geniscan hand scanner. Boxed as new. £99. Half meg memory expansion, £15. Also printer ribbon, re-inking service. Write for details to: Mike, 34 East Avenue, Rudheath, Norwich, Cheshire, CW9 7JE.

● DAYS OF THUNDER, Back To The Future II, Nightbreed, Shadow Of Beast 2, £12.50 each or £39 the lot, or exchange for good database/spreadsheet, £20. Not PD. Tel (0205) 84319 mornings 10.30am to 1.15pm. Ask for Paul.

● AMIGA PD. 70p per disk. SAE for details. Catalogue disk 75p inc p+p. For details write to M Daniels, 13 Churton Road, Rhyd Clwyd.

● CHEAT DISK six on two disks packed with hints + pokes. £3. Amiga secondhand software for sale. Original, very good condition, eg Impsons, 1Meg game £10 etc. Cheque/SAE to Julian SMith, 45 Maplecroft Crescent, Sheffield, S9 1DW.

● AMIGA daatascan Pro b+w hand scanner with s/w, leads, interface, manual, boxed, used once. £140. New Datamouse, 360 DPI, Amiga/Atari ST, mat £30. I'll pay postage. 051 426 0138.

● AMIGA 500 1.3 (one meg) Cumana drive, Philips 8833 monitor Star LC10 colour printer, mouse, joystick, magazines, over 250 disks. £700 o.n.o. (0246) 200031 after 8am. Buyer collects.

## MIKE JERVIS

### 16 bit Computers

19 Portree Drive, Rise Park, Nottingham.  
NG5 5DT. Telephone (0602) 274369  
SERIOUS AMIGA SOFTWARE  
AT FRIVOLOUS PRICES

All prices  
include  
VAT  
and  
Postage  
Callers  
Welcome

Bars & Pipes Professional  
complete with Tool Kits  
A&B, Multi Media Kit  
and Internal Sound Kit  
£300.00

K-Roget ..... £20.00 Art Department Professional £115

Deluxe Paint 3 .... £53.50 Small Business Accounts Extra £76.50

Small Business Accounts Cash £53.50 K-Comm2 £20 A.M.A.S £64

Sterling Service Bulletin Board £73.50 Prodatal £49

Quarterback £32 Quarterback Tools £44.75

Quarterback £32 Quarterback Tools £44.75

Distant Suns £45 Vista £51.50 Protect 5 £90

Pro Video Plus.. £153.50 GPTerm £50 DOS to DOS £24.50

Amigavision ..... £76.50

The above is only  
a small selection  
from our extensive  
stocks of  
hardware  
software and  
peripherals.

● AMIGA 1500 CDL for sale. 5 meg RAM, 20 meg hard drive, three 31/2" disk drives, one 51/4" disk drive, Linnet modem, lots of software, one meg Chip RAM, and lots more. Tel: 0253 724607. £1200 o.n.o.

★ AMIGA PD ★  
wanted (particulary demos) by new Amiga owner. Send disks to: Stephen Sherwin,  
8 Roddens Gardens, Castlereagh,  
Belfast, BT5 7JJ.

All disks returned plus postage refunded.  
Keeps the spirit of PD alive.

● AMIGA A1500 CDL, 5 meg, 20 meg, hard drive, 2 internal, 2 external, 31/2 disk drives, 51.4 disk drives, lots of extras, £1500 o.n.o. Tel: (0253) 724607, (Lytham St Annes, Lancs). Reason for sale - upgrading.

● AMIGA 500 (1.3) joystick over £600 worth of games, manual, inc spare disks, excellent condition. £450 o.n.o. Phone 0322 274238.

● WANTED for Amiga 2000, Multisync monitor. Offer £150. A2320 display enhancer, offer £80. AT Bridge Board., plus 51/4" drive. Offer £250. Phone Ian, Runcorn. (0928) 701222.

## ◆ PC

● IBM PC needed for finals project. Ideally 4Mb 386DX, 40Mb hard disk, 1Mb super colour VGA is possible. Can pay £500. max. Offers to Ady, 5 Summerville Road, Pudsey, LS28 6EL.

● 750 PC SHAREWARE programs/files compressed to 12 5.25" 360K disks. Pkunzip on first disks allows you to explode rest. £12 only. Tel Paul (0532) 498985 or 1 Montague Gardens, Leeds, LS8 2RN. Also similar pack, 17 disks.

● AMSTRAD PPC 1640 portable built in modem, twin 31/2 ins disk drives, carrying case, manuals, still boxed, mint condition. £325. Tel: 0244 535310 after 6pm.

● AMSTRAD portable PPC512D, external colour monitor, Star-LC10 Multifont printer, all leads, manuals and organizer software/MS Dos 3.3 disk included. £400 o.n.o. Tel (0639) 887187 after 6pm.

● WANTED Archimedes computer for school child, any model or condition considered, will collect. Tel: (0332) 830140 and ask for Mark.

## X-Press PD CLUB

All latest Amiga titles available - £1.00 per disk, postage and packaging free.  
Over 800 titles available - games, demos, music & utilities.  
Free membership with 1st purchase. Orders sent same day.  
Below is a small selection of titles available from our large stock.

CHUBBY BROWN (1 Disk) - Comedy

FLASH QUEEN (2 Disks) - Music Sample

DEFINITE DOCKLANDS (1 Disk) - A must for 'Jarre' fans

GROOVE IS IN THE HEART (1 Disk) - Music Sample

HOLY SMOKE (1 Disk) - Loads of Utilities

KYLIE MINOGUE (2 Disks) - Excellent samples and Slide Demos

MADONNA (4 Disks) - Vogue Sampler

NOT THE 9 O'CLOCK NEWS (2 Disks) - Gorilla Sketch

SAMANTHA FOX 2 (1 Disk) - Slideshow (18+)

STAR TREK TRIVIA QUIZ (1 Disk) - Game

Discounts for  
orders over  
£20.00

We also supply sound tracker samples, T-Bag disks and our own disks and demos. Send S.A.E. for catalogue or blank disk for disk magazine.

Please send to:- K.Larkin, X-Press PD, 12 Hathaway Court, Cheriton Road, Gillingham, Kent, ME8 0ES. Tel: 0634 30638

## ◆ CONSOLES

• **C64**, datasette, reset switch, Quickshot Turbo III joystick, unused, manuals, leads etc, plus over £1500 worth of original games, including Turrican 2, Super Monaco G.P., Rick Dangerous II, etc. £200 o.n.o. Richard Fisher Kettering. (0536) 510719 after 5pm.

• **AMSTRAD CPC464**, including colour monitor, £300 of latest games, including Hard Driving, Chase HQ, Robocop, all original games, 2 joysticks, manual, worth over £600. Sell £200. Contact Phil Rochdale. (0706) 47262 after 5.30pm.

• **CBM 64** with datacassette, 1351 mouse, action replay, MK V1, parallel cable, OCP Art Studios, Robocop 2 (cart), Stealth Fighter, Golden Axe, Wheels Of Fire, Hollywood collection, plus magazines/tapes, and more! £250. Tel Lincoln. 750668. Buyer collects.

• **BBC MASTER**, about 30 Roms w/w AMX D/D, wordaid, spellcheck etc. Epromer and eraser about 200 disks, books, manuals, leads, AMX mouse, twin 40/80 D/D's green monitor, £400. Bell, Sutton Way, South Shields, Tyne and Wear, NE34 7QG. 091 4544681.

• **CM64** disk drive, midi interface plus advanced music system sequencer plus over 20 disks in box £90. Tel: Frank (0236) 875317.

• **CBM64C** with cassette unit, 1351 mouse, Action Replay Mk.VI, OCP Art + Advanced Art Studios, Robocop 2 cartridge, Stealth Fighter, Wheels Of Fire, Hollywood Collection, Golden Axe + much more. Magazines/tapes. Mint! All boxed £225. (0522) 750668.

• **C64C** plus data recorder and £220 worth games, lightgun, plus games, Simon's Basic cartridge and extension, manuals, magazines, can see working, £170 o.n.o. Phone (0322) 224278 before 8pm.

• **AMSTRAD CPC6128**, colour monitor, dust covers, immaculate condition, £140 o.n.o. Tel: Nim on 081-889 0081.

• **AMSTRAD CPC464**, colour monitor, £120. No software, hence price. Telephone (0352) 720603 North Wales.

• **BBC B** disk drive, tape, Teletext adaptor, Wordwise, printer utility ROM. Tape to disk ROM issue 7 1.20S £22 games, disks, several books, years of Micro Users, sideways ROM/RAM board, excellent condition, £300. (0268) 767123 Essex.

• **AMSTRAD CPC6182** with colour monitor. Perfect working order, includes hundreds of games, utilities and magazines. Also Multiface II, tape recorder and leads. Worth almost £1,100, sell for £345 or reasonable offer. Phone (0635) 201569 for details.

• **C64**, disk drive, two tape decks, back-up board. All manuals, most boxes, complete input magazine set in binders. Joystick, over 100 games plus a computer desk. Buyer collects, £300 o.n.o. Phone (0698) 832281 after 6pm.

• **CPC6128** with colour monitor, 2nd disk drive, Multiface, mouse, software, includes Stop Press, Mini Office, Brunword, AMX Art, Bank Balancer, plus many games. This package is in near new condition £250. Phone Stevenage 364722.

• **AMSTRAD CPC** Tasword 6128 word processor disk, Tasspell spelling checker disk £20, Mini Office 2 disk £8, Extra Extra for StopPress £10, 3D games, Driller, Dark Side, Total Eclipse £18. Tel: (0446) 721289.

• **SPECTRUM PLUS 3** with disk drive, Multiface 3, tape recorder, leads, joystick, disks, loads games, top titles e.g. Pang, Gazza 2, and mags for £160 o.n.o. Phone (0505) 26533 after 6pm (price flexible).

• **C64** old style, with tape deck (lid missing but works fine). Also a few games, Dropzone, Mercenary, etc. £70 inc. postage. Ring 061-225 2898 ask for Mark.

• **WANTED**: Spectrum PD. Call Alex on 081-777 6241 or send to: 153 Pickhurst Road, West Wickham, Kent, BR4 0AG. Also ZX Microdrive wanted, will pay up to £8.

• **FOR SALE**: Speccy games over £400 worth. Also a Vidi interface and music machine worth £480. A bargain at £200, will split. Call Richard on (0555) 82677 after 7pm.

• **SPECTRUM+2**, joystick, 200+ games, demo tapes (including games and cheats), only £120 or offers, will swap for Amiga hardware or software. Call Tom (0908) 310808 anytime.

• **NINTENDO** Gameboy, not used, unwanted present with Tetris game including headphones and carrying case only £48. Phone Canvey (0268) 691217 after 6pm. Buyer collects. Also two player lead.

• **SEGA** plus five top games all cost £30 each, want offers over £80 or offer of Amiga hardware or software. Large number of disks, etc. Paul Moorend Avenue, Chelmsleywood, Birmingham, B37 5SD.

• **SUPER FAMICOM** with one game, brand new, £220 o.n.o. Master System with five games, £95. Megadrive scart, £70. Games from £10. Phone Matt on 0403 60069 evenings and weekend, not Wednesday.

• **MEGADRIVE (UK)**, extra control pad and Super Hangon: £120. Populous £15, John Madden (unboxed) £15, or £140 the lot. Phone Carl (Reading) 0734 484897.

• **GAMEBOY**, Lightboy, Tetris, Mario Land, Batman, Spiderman, Burai Fighter, Gator Pinball, Gargoyles Quest, Fortress Of Fear, World Bowling, carry box all leads, Nicad batteries + charger, mains adaptor. All only £200 plus p+p. 0309 690091.

• **NEO GEO** with baseball and Nam and second control (Scart), only £375. Also Famicom (Scart) with F-Zero and Populous, £220. Four other Famicom games, available at £25 each. All above boxed, as new. Phone 0322 863656.

• **FOR SALE**: Sega gamegear with Super Shinobi, only 3 months old, full guarantee. Bargain at £75. Phone 081 684 5226. Robert.

• **WANTED** PC Engine games, Gunhead, Final Lap, and more. Also are there any PC Engine clubs or groups somewhere. Write to me please. Bal. 62 Lissenden Mansions, Gardens, London, NW5 1PR.

• **MEGADRIVE**: I have Tatsujin, Ghost Busters, Super Shinobi, and Arnold Planers Golf, to swap. Any game considered, especially P.G.A. Tour Golf and Ghouls And Ghosts. Tel: (061) 620 5350.

• **WANTED**: Hand held PC Engine with game(s). Will pay £240. Bare £270 with games. No timewasters please. Call Simon on 0430 440301 or will pay £60 for gamegear with 2 games.

• **PANASONIC KXP 1081** printer, very good condition. £95 o.n.o. Phone 081 886 6114 mornings, 081 889 8426 evenings.

• **18 CARAT GOLD** pen (solid gold!). Will swap for decent printer, preferably colour, must be working. Phone me on 0255 862205 (Essex). Pen also has space for engraving.

• **GAMEBOY** with mains adaptor, Tetris + Golf. £70. 1 month old. Also Lynx with adaptor, Gauntlet 3, Chips Challenge, Gates Of Zendon, Electrocop, worth £220. £120 or swap for game gear. Phone Seth on 021 3553841.

## VIDEO GAME CENTRE

870 Wimborne Road, Bournemouth, BH9 2DR

### MEGADRIVE

Spiderman	36.99
Fantasia	36.99
Sonic Hedgehog	34.99
Ice Hockey	39.99
Outrun	34.99
Wardner	29.99
Phantasy Star III	49.99
688 Sub Attack	39.99
Dinoland	34.99
Alien Storm	34.99
Streets of Race	34.99
Turrican	39.99
Road Rash	39.99

### GAMEBOY

Bill & Teds	24.99
Castlevania II	24.99
Nemesis II	24.99
Burger Time	24.99
The Punisher	24.99
Navy Seals	24.99
Mickey Mouse	24.99
Parodius	24.99
Princess Blobette	24.99
Duck Tales	24.99
Ninja Warriors	14.99
Dragons Lair	17.99
Rolans Curse	17.99

### LYNX

Lynx II	89.99
A.P.B.	28.99
Pacland	28.99
Warbirds	28.99
Ninja Gaiden	28.99
Chess	28.99
Blackout	28.99
Blue Lightning	19.99
Klax	24.99
Rygar	24.99
Roadblasters	24.99
Pouch	12.99
Kit Case	16.99

Please send S.A.E. for full list of games. (Closed Mondays)



TEL/FAX: 0202 527314



• **PROGRAMMERS!** Send you utilities, demos, etc to us and we'll include them on program pack, (a new speccy tapezine) and give you a years free subscription. Call Alex on (081) 777 6241 for further details.

• **BBC B**, Watford Rom/Ram board, dual disk drive, View 3, logo, basic editor, RGB monitor, Acorn data recorder. £275. Tel Caernarvon. (0286) 3887.

• **WANTED** Romantic Robot, Multiface 128 Interface for Sinclair Spectrum 128K. Will pay up to £20. Call Alex on 081 777 6241.

• **BBC B** with Sanyo colour monitor, 5.25 inch, double sided 40 Track disk drive, Watford 32K Ram Expansion, Roms, and disks, and 3 inch disk drive. £350 o.n.o. Phone 061 707 4175 and ask for Graham.

• **COMMODORE 64K** data cassette for sale £95. Disk drive £89 Commodore 1570/71, 4 Mill Street, Delves Lane, Consett, Co. Durham, DH8 7AR.

• **SPECTRUM 128K+**, including printer, paper, manuals, 50+ games, joystick, interface, all leads, v.g.c. bargain £65.00 plus postage. Details Steve 081-517 6772 evenings.

On-line

A breakthrough in MULTI-PLAYER entertainment

Got a modem - Join instantly!

Playing now,

the award-winning adult space fantasy **FEDERATION II**

Flying now the Multiplayer 3D combat flight simulator **AIR WARRIOR**.

COMING SOON....The original, the legendary, the classic **MUD**

FREE Membership as a special introductory offer.

**LOG ON NOW TO FIND OUT MORE** CALL 081-539 6763

642a Lea Bridge Road London E10 6AP

• **WANTED** desperately Commodore 64 music expansion system to include Sound Expander, Sound Studio and five Octave keyboard. Contact Agnus Bryant, 64 Fisher Avenue, Rugby, Warwickshire, CV22 5HW.

• **C64 DISK DRIVE** and serious disk software wanted, also Motherboard. Phone Brian 0536 745908 or write to 36 Lincoln Way, Corby, Northants, NN18 9HL.

• **AMSTRAD CPC464** with mono monitor, approximately 20 games, joystick, 100's of magazines, back to 1985, manual, all perfect working order, summer bargain. £80. Also CPC464 disk drive, plus software, etc. Only £70. Please phone 0480 61253.

• **SPECTRUM 48K+**, PSU, leads, manual, lots of games, new fonts etc. £60 + Zx81, 1K, manual, PSU, leads, some games £25(?) or swap either, for CPC 464, or Amiga bits. 205 Ballard Walk, Basildon, Essex, SS15 5JU.

• **SPECTRUM +**, interface 1, Microdrive, Multiface 2 (for tape to drive copy), recorder, joystick, 60+ games. £70 o.n.o. Mid Sussex, 0342 810784.

• **ATARI 130XE**, 1050 disk drive with happy fitted and no-notch modification, joystick, books, magazines and seventy five disks. All with original boxes. £150 o.n.o. plus p+p. Tel 0309 690091.

★ **COMMODORE 128D** ★  
Integral disk drive, separate keyboard, inc CP/M and C64 mode. Demo disks, PC software and blank disks, cassette unit, manuals needs mains switch, hence £200. 021 3515556.

• **SPECTRUM plus128K** for sale with Interface 1, Interface 2, Microdrive and Serial 8056 80 column printer, £200. Also Psion Organiser IIXP, Harvester Superchip and mains adapter, £100. All in excellent condition. Call Dominic on 081 332 6007.

• **SPECTRUM +3** £75 + postage. QL £60 + postage. Spectrum + 48K £45 + postage. Spectrum 48K £35 + postage. Interface one, Microdrives, also games budget, Microdrive cartridges £1.25 each. Mirace Microdrives, printer serial 8056. Phone for list: Chorley (0257) 278464.

• **WANTED**: for Comm C64 on disk, Word Writer Mk 5 word processing program. Phone (0536) 745908 or write: 36 Lincoln Way, Corby, Northants, NN18 9HL.

• **ATARI 800XL** joystick, data recorder, 68 games (cassettes) £100 o.n.o. Telephone Newbury (0635) 34978 evenings/weekends.

• **CBM64C** (still boxed) + TV/monitor + 1541 disk drive + MPS801 printer + tape deck + mouse + power cartridge + books + mags + Easy Script word proc. + Mini Office 2 + £300 worth of games on tape, disk, cartridge, worth £700, sell for £320. Tel: (0599) 4613.

• **SPECTRUM SOFTWARE FOR SALE** on tape. Lots to choose from including many classics like Skool Daze from only 75p. Send a s.a.e. to: 17 Thurnham Grove, Marton, Middlesbrough, Cleveland, TS7 8PT.

# EXPRESS SALES

● **SUPER FAMICOM:** Scart version complete with two joypads, five games still under guarantee only £260 o.n.o. Tel: (0924) 494690 or write to: D Clift, 15 Back Knowl Road, Mirfield, West Yorkshire, WF14 9SA for more details. Will deliver in W. Yorks.

★ **SUPER FAMICOM**★  
with four games, Final Fight, Mario World, Pilot Wings and F-Zero. Excellent condition, only three months old £250 o.n.o. Ring (0276) 76156 anytime. Ask for Dermot.

● **PC ENGINE (Pal)** with two joypads and adaptor, 14 games inc. Parasol Stars, Legend of Tonma, Don Doko Don, R-Type, Formation Soccer, Tennis, etc... Worth £500+ all boxed, £250 o.n.o. Tel: Andy (Rooms) (0772) 58851 after 6pm.

● **SEGA MASTER SYSTEM**, 2 joypads, joystick, 2 built-in games, Hang-On and Maze, boxed, fairly new £40 including postage. Contact Sufian on 021-471 1276 (Birmingham).

● **SUPER FAMICOM** for sale + 1 game £180 or may swap. Phone (0572) 770122. Mr Clarke.

● **NINTENDO GAMEBOY (UK pack)** Tetris, leads, etc. Also with Double Dragon and game light, boxed and under warranty £70. Phone 081-691 7456 after 6pm please ask for Kimwen.

● **GAMEBOY GAMES**, Turtles, Mario, D. Dragon for swap with any other decent games + small amount of cash if required "in Brighton area only" Call Nick (0273) 673639 or write: 7 Brede Close, Brighton, BN2 5GR.

## 'THE ATARI ST DEMO SPECIALIST'

Dept N, D.W. Stables, Unit 1, Johnson's Shopping Centre, 29/31 Bond Street, Blackpool FY4 1BQ Tel. 0253 404550 Fax. 0253 406053

If you would like to possess a collection of fantastic graphics, animation and music disks at low cost you are reading the right ad! I have one of the most comprehensive Atari ST Demo Libraries in Britain!

SEND ONLY £1.00 FOR MY LATEST 'CATALOGUE DISK' which gives details of my FULL RANGE of the great 'PERSISTENCE OF VISION' packed demo disks, Megademos, Super Single Demos, Music Demos, Slideshows, Utilities and more (it even contains a good P.D. game!)

Try these for example.... (All disks D/S)

POV 40 CEBIT '90 (INCREDIBLE 3D GRAPHICS): ZUUL: BLACK WIZARDS  
POV 51 FAT BOTTOM GIRLS ('QUEEN'): ROBOCOP 2 DEMO: MR SPOONS DEMO (NOT STE)  
POV 62 JELLYBEAN: RED DWARF: 'HEAR THE DRUMMER GET WICKED': PRO-SPRITE ENGINE  
S 11 SLAYTANIC CULT 7 (8 original tunes, each with 'horror' picture!)  
S 34 STP SLIDESHOW 7...SCIENCE FICTION...60 pics!  
S 36 THE INVISIBLE MAN/REQUIEM (2 DISKS)...superb 'Queen' sample!  
MD 21 DARK SIDE OF THE SPOON...Fantastic Megademo!  
MD 30 THE ULTIMATE GFA DEMO... 12 great screens done in pure GFA!  
STE 1 STE PRESENTATIONS...4 stunners for the STE!

Prices 1-5 disks £2.50 each. 6-10 disks £2.25 each. Over 10 disks £2.00 each. Please make cheques, Postal orders payable to D.W. Stables. **FAST SERVICE!**

● **WANTED** Gameboy in good condition will pay £30 ono. Write to Omar Aysha, c/o Dr. Aysha, Lodge Moor Hospital, Redmires Road, Sheffield S10 4LH. Or Tel 0742 630222 ext 6284 after 7pm.

● **WANT** a Linnet V21, V23 modem? Get one wear and get two Comms programs with it. Modems rrp is £180. Programs rrp is £70. Yes its worth £250 but it all yours for £110. Call Lee Beckett, (0925) 33812.

● **WANTED** Sega consoles working or not. Write to Dev, 131 Limetree Avenue, Wymondham, Norfolk, NR18 0EJ. Ring 093587 339 (3-6pm).

## ◆ PRINTERS

● **WANTED** printer, compatible with Amiga and Amstrad 464 computers. Preferably Epson FX or Star, in decent condition, must be fairly cheap, VP to £60. Phone Andy on 0706 43363. Rochdale area. Near Manchester. Anything considered.

● **DEC LASO PRINTER**, manual, 2 spare ribbons. Compact and fast (100CPS) but not Epson/IBM compatible and Serial only, hence £25 o.n.o. + postage. Mid Sussex. 0342 810784.

● **STAR LC200** 9PIN colour printer, includes lead for connect to Amiga, ST or PC. Boxed with 2 ribbons and users manual etc. £160. Phone Pete on: (081) 599 0556. Buyer collects.

● **NEC P7 PRINTER** 132 colour 9PIN only. £130. Ideal for business with moderate throughput. £130. Ring Ian 0695 579106 after 6pm.

● **WANTED** auto sheet feeder for Citizen Swift 9PIN printer. Ring Eric on 0438 755098 Daytime.

● **AMSTRAD DMP 2000** printer, £60. Parallel Interface. Needs new ribbon, Epson compatible ribbon cable not included, was £159 new. Phone 081 444 0709 (evenings) Buyer collects.

● **EPSON FX800** 9PIN printer, extremely fast, ideal for all your orders for listing as it will chug through a tree day! Only jocking, £130. Ring Ian 0695 579106 after 6pm.

● **STAR LC24 200** 24PIN printer, with multiple fonts, advanced paper handling. Basicall brilliant machine. £250. Phone Ian on 0695 579106 after 6pm.

● **OKI MICROLINE 182** Dot Matrix printer, brand new in box. £120. 081 904 2545. Wembley.

## ◆ MONITORS

● **PACKARD BELL 14"** non-glare colour Multisync monitor. Analog/TTL inputs. 800 x 560 resolution 0.31mm dot pitch. Hardly used. £220 o.n.o. or swap for Philips 8833 MKII or Commodore 10845. Tel: Paul 0628 665312 evenings. (Slough).

★ **PHILIPS CM8833**★  
monitor, tuner and monitor stand, excellent condition. Offers around. £190. Phone Carl (0734) 484897 (Reading).

● **PHILIPS** colour monitor. 8833 Scard and TTL RGB plus Cubs inputs. As new condition. Little used. £190 suit Amiga or C64 etc. Phone Basingstoke 0256 781408..

## ◆ SOFTWARE

● **AMIGA** software, D Paint II, £10. Shadow Of The Beast II, £10. Night Breed, Days Of Thunder, Back To The Future II, Rainbow Islands, Escape From The Planet Of The Robot Monsters, all £5 each. 0926 400085.

● **ST TOS 1.4** ROM set (six chips) including fitting instructions. £40. 720K internal disk drive, ST or PC. £30. 1.44M disk drive. £40 0322 662747.

● **AMIGA PDI** Over 350 disks available, you simply send extra blank disks for my time and costs. SAE for my time and costs. SAE for details and listing. Enclose a blank for free deoms. David Hopkins, 70 High Street, Delabole, Cornwall, PL33 9AH.

● **AMIGA PDI** Over 350 disks available, you simply send extra blank disks for my time and costs. SAE for my time and costs. SAE for details and listing. Enclose a blank for free deoms. David Hopkins, 70 High Street, Delabole, Cornwall, PL33 9AH.

● **AMIGA ADVENTURE** fans, Zork Zero, Police Quest, Lancelot, Manhunter, Shogun for sale. £12 each, or £55 for the lot, boxed originals. Gavin Wylie, 1 Guthrie Street, Carnoustie, Angus, DD7 6EL. Also Amos with extras, £25 with manuals.

## SAM COUPE AND SPECTRUM MAGAZINE! "OUTLET"

GRAPHICS,  
AND HELP PAGES,  
SERIOUS SOFTWARE

SPECIAL OFFER! Latest issue £2.50 to newcomers on:-  
+3, DISCIPLE/+D, MICRODRIVE, OPUS, TAPE, SAM DISC  
CHEZRON SOFTWARE, 605 LOUGHBOROUGH RD., BIRSTALL, LEICESTER LE4 4NJ

● **SHARP JC-534** (black) walkman, 3 band graphic equalizer AM, FM, FMST. Radio bands. Dolby N.R.X-bass, auto reverse, play, rew, f.fwd, stop buttons. Sell for £45. 12 months old, in immaculate condition. Please phone (081) 6530642. Ask for Songyow.

★ **ORIGINAL**★  
Amiga and C64 software for sale.  
Phone Milton Keynes. 0908 660453  
for details or a list of titles. Some  
hardware, also for sale.

● **ADVANCED** CCP art studio for C64. Brand new, still wrap sealed. £10. C64 power supply. £10. 0926 400085.

● **SPECTRUM** software for sale Over 70 games, including Klax, Batman, Chase HQ, New Zealand Story, plus cassette recorder with lead and powerplay cruiser joystick worth £275. Sell for £75 o.n.o. Contact Neil on (081) 661 7808.

● **ORIGINAL** Amiga and C64 software for sale. Phone Milton Keynes. 0908 660453 for details or a list of titles. Some hardware, also for sale. Please ask for Paul.

● **1BM** 51/4 disks, Wordstar v6, brand new, unregistered. £175 inc p+p. Indiana Jones, £10. World Tour Golf, £10. Time and Majic, £10. Sign Designer, £25. DTP Lite, £20. Cyrus II. Chess £8. Tel 0254 873048 after 6pm.

★ **AMAZING**★  
Atari ST X-rated disks. Send 50p a blank disk with SAE or 50p for a catalogue. Send £10, note for every 10 disks, stating what you already have.  
Tahmum, 10 Grasmere Avenue, London, SW19 3DX. 081 542 4386.

● **ADVANCED** CCP art studio for C64. Brand new, still wrap sealed. £10. C64 power supply. £10. 0926 400085

● **ST TOS 1.4** ROM set (six chips) including fitting instructions. £40. 720K internal disk drive, ST or PC. £30. 1.44M disk drive. £40 0322 662747.

● **HI-SOFT** power basic sealed unwanted gift, £25. Phone Dave (0705) Portsmouth 552940.

## IBM PC MUSIC SOFTWARE

Call us to discuss your requirements / request a catalogue !

### Roland Sound Modules

Roland LAPC-1 (MT-32 Compatible)	£265.00
Roland CM-32L (MT-32 Compatible)	£265.00
Roland CM-32P (U-110 Compatible)	£325.00
Roland CM-64 (CM-32L & CM-32P)	£545.00

NEW ! Roland SC-55 Sound Canvas £485.00

(All prices include VAT at 17.5%)

### Computer MUSIC Systems Ltd

● **1BM** 51/4 disks, Wordstar v6, brand new, unregistered. £175 inc p+p. Indiana Jones, £10. World Tour Golf, £10. Time and Majic, £10. Sign Designer, £25. DTP Lite, £20. Cyrus II. Chess £8. Tel 0254 873048 after 6pm.

● **AMAZING** Atari ST X-rated disks. Send 50p a blank disk with SAE or 50p for a catalogue. Send £10, note for every 10 disks, stating what you already have. Tahmum, 10 Grasmere Avenue, London, SW19 3DX. 081 542 4386.

● **AMIGA** software, D Paint II, £10. Shadow Of The Beast II, £10. Night Breed, Days Of Thunder, Back To The Future II, Rainbow Islands, Escape From The Planet Of The Robot Monsters, all £5 each. 0926 400085.

071-482 5224

5-7 Buck Street,  
London NW1 8N.J.  
Tel 071-482 5224

● **SPECTRUM** software for sale Over 70 games, including Klax, Batman, Chase HQ, New Zealand Story, plus cassette recorder with lead and powerplay cruiser joystick worth £275. Sell for £75 o.n.o. Contact Neil on (081) 661 7808.

● **ST ORIGINALS** for sale, inc Powermonger, Curse Of The Azure Bonds, Legend Of Faerghail, Battle Master, Yenomorph and Corporation. All boxed with manuals, from £8 to £13. Phone Paul on 0709 898780.

● **AMIGA GAMES** all boxed with manuals, Beast II, Rocket Ranger, Carrier Command, North And South, Defender Of The Crown £5. Pirates £10., and more. Swap possible. Phone Richard (071) 272 7504 evenings.

## EXPRESS SALES

### PC SHAREWARE

Over 9000 US based programs at only £2.35 inc VAT per Disk.

Adventure, Card, Arcade, Board Games, Spread Sheets, D Base, W/Processors, Graphics, Animation and lots more.

Send £1.50 + 50p Post & Packing for Catalogue Disk stating 5 1/4" or 3 1/2" payable to:

**COMPUTER GAMES SHOP,**  
UNIT 1, CENTRAL MARKET, SCARROTS  
LANE, NEWPORT, ISLE OF WIGHT PO301JD  
TEL: 0983 821222

● AMIGA F19 original £16 or swap Chaos Strikes Back or B.A.T. Telephone 0630 658329.

● WANTED! Amiga games and any old computers, monitors, printers, disk drives and modems etc needed for a computer course. Will pay small charge. Send your details to G Muir, 17 Thurnham Grove, Marton, Middlesbrough Cleveland TS7 8PT.

● PC GAMES for sale: King's Quest I, £10. KQ2 £10, KQ3 £10. Colonel Bequest £20. Ultima 6 £20, Curse of Azure Bonds £15, Knights of Legend £10, Bad Blood, £10, KQ4 £15. Ring Roland 071 250 1910.

● PC HACKERS PACK 100's of unprotects, Virus Kit, Assembler, Dissembler, copier disk tools etc only £15 for 11 full 5 1/4" disks plus £1 P&P. 37 Devon Place, Newport, Gwent NP9 4NQ. Tel 0633 259847. (Not for piracy).

● PC SHAREWARE £1 disk + P&P over 2000Mb largest and best. Latest top Anglo American titles. Best value. Send 2 first class stamps for easy menu driven catalogue disk. 37 Devon Place, Newport, Gwent NP9 4NQ. 0633 259847.

● AMIGA, boxed originals, Wizardry Six £15, Powermonger £10, E.O.B £10. Might and Magic II £10. Chaos Strikes Back £10, Supremacy £10. Kings Quest Triple Pack £10, Dragon Breath £10, and many more. Ring 0704 534502.

● MENU WORKS for IBM compatibles. Frontend Software RRP £35, still in shrink wrap. 3 1/2" or 5.25" only £10. Also Disk compressor Squish + RRP £89 only £30. "Doubles" hard disk. Phone David 071 481 9146.

#### ★ AMSTRAD 6128 ★

disk software, brand new, unused. Stop Press DTP, Mini Office II, Blasteroids. Offers or swap for Amiga goodies. Peter 0342 835530. Lingfield, Surrey.

● ASHTON TATE Multimate, Advantage Two on 3 1/2" disks original disks not copies no manuals. Offers about £150. Please contact Keith 081 317 1411 evenings.

● AMIGA software, brand new, unopened boxes. Platinum works! £50, Comic Setter £35, Spritz Paint £15. Phone Howard on 0992 461757.

● ADPD Cheap Amiga PD why pay loads when you could pay little. All up to date disks new arrivals daily, for full details send SAE. Prices from 50p. ADPD, 15 Deanes Close, Covercourt, Essex CO12 4JH.

● FANTASTIC collection of ST originals for sale, Midwinter, Sherman M4, Populous, Robocop 2, Sleeping Dogs Lie, Chopperx, Eswat, Borodino, Strider 2, Days of Thunder. Prices range between £4.00 and £10.00. Phone Pete after 7.30pm on 0296 82362.

● 100 GAMES for PC incl, Captain Comic, Commander Keen, 3D Chess, 2D Tennis etc. £13.50. Send Cheques/PO (or SAE for list) To: Andy Kyriacou, 17 Parkhurst Road, London N22 4JQ (mark envelope 100 games).

● SWAP any two of my games, Robocop, Populous, Space Harrier, Tetris, Strike Harrier, Pioneer Plague, for any one of the following Warhead, Infestation, Shad Beast, Battle Chess, Afterburner, write to Dene Conway, 2 Duchess Street, Bulwell, Nottingham.

● BATTLESCAPE an original 2-player wargaming program for colour Atari ST/STE. Select different terrain maps and army units. Includes Mapmaker program. £4 inclusive, available only from author. R. Wright, 32 Valley Crescent, Wokingham, Berkshire RG11 1NP.

● AMIGA games RVG Honda, E-Motion, Micropro Soccer, Tower of Babel, Shuffle Puck Cafe, Power Play, Kid Gloves, Dungeon Quest, GM Slam, Datastorm. All £5.00 each. Tel 0736 50130

● AMIGA software, F19 Stealth Fighter M1 Tank Platoon, Fighter Bomber, £12. A-10 Tank Killer, £15. Bomber Mission disk, £7. All boxed as new. Reading. 0734 665842.

● WORD Star 200 Plus: 5 1/4" disks, still boxed (originals) will sell for £45. Phone (031) 6637946 (Edinburgh).

● DO YOU HAVE AN ST upgraded to 1Mb? and need serious software at the right price. I am auctioning business and educational software new, boxed, original SAE for details. Tomlinson, 13 Holme Road, Bingham, Nottinghamshire, NG13 8D2.

● C64 SOFTWARE on cassette and disk wanted by new owner, word processor and board games, especially wanted. Can any one please help. Lincoln Ohara, 41 Springmill Street, Bradford, West Yorkshire, BD5 7EE.

● SOFTWARE for sale. Platinum Works, D-paint 3, Populous, Sim City, Battle Chess, Their Finest Hour. Nearly £300 worth, all unopened. £140 the lot. Contact Alan 091 5674267.

● AMIGA demos to swap absolutely free, just send a disk with a list or demo on and I'll reply with some disks. Send to: Stuart Sankey, 67 Mapledene Road, Sheldon, Birmingham, B26 3XE.

### Clydeside Shareware

Over 700 Megs! of top quality PC Shareware & Public Domain software. £1.50 (5 1/4"), £2.00 (3 1/2") per full disk! Send SAE for FREE menu driven catalogue to: Ian Tweedie, 50 Ottoline Drive, Troon, Ayrshire, KA10 7AW or Tel: (0292) 313312  
Pik'n'Mix System! That is, you choose only the files you want!

● WANTED Dead QL or QL Outfit. Tel 0760 755402.

● ATARI mouse, brand new, unused. £15. Phone 081 4229099.

● WANTED: Photon Storm for the Amiga. Contact Mike Ball, 1 Wyndale Drive, Syston, Leicester, LE7 8LR. You know it makes sense!

● AMX MOUSE + Stop Press for CPC, boxed as new, £40 o.n.o. Assorted CPC books, worth £35 + some magazines, £15 o.n.o. Andrew Stewart. (099382) 3325 (Oxon).

● CONSULTANCY services offered systems implementation undertaken in C, Pascal, Cobol, Assembler, Oracle, ADA, Database III DOS and Unix supported. Call to discuss requirements. Lee McAllister on 081 519 8568.

● DRAWINGS plotted send H/P7475A Compatible O/P files Amiga, ST, IBM720K state A4/A3, A3 £2., A4 £1.50. Also printouts draft 15p/page 24PIN LQ. 30p/page + 50p p+p. Send to Mr. S. Smith, 46 Willingham Road, Knaith Park, Lincs, DN21 5ES.

● FREE C64 PD software for details send 35p stamp to Zeons Lairs, 4 Garden Close, Penrith, Cumbria, CA11 7LD.

● ARCHIMEDES hardware and software sale, I.O. Podule with Midi Atomwide Prototype card Econet PC Emulator Arc PCD, Arcwriter. All half price or consider swap for impression. Ring Rob. 0203 367283.

● SPECTRUM game for sale on cassette and +3 disk for a price list send a stamped SAE to M. Smith, 6 Bernard Crescent, Ipswich, Suffolk IP3 9LJ. Please state which Spectrum you own.

#### ★ ST GAMES ★

All originals, software, Cadaver £15, Daemons £15, Drakkhen £15. B.A.T £15, Onslaught £5, Some others from £5-£15. Post inc. Phone Adrian 071 978 1286.

● FOR SALE Amiga software, never used, unwanted gift, Digital, DG Calc, £15.00 cost £30.00 & £39.00 new. Tel Terry 071 790 7499.

● AMIGA games disks boxed, complete as new. T.V Sports Football, £10, Elite £6, Speedball £5. All ono. Operation Wolf disks only (original) but no instructions. Please ask for Ray. Phone Nottingham (0602) 411537.

NDT WHY WAIT?

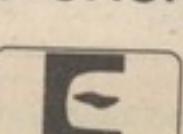
MSDOS 5  
Full Version (not upgrade)

£59

While stocks last!

TEL: 0922 616733  
FAX: 616737

All prices exclude Vat. P&P U.K. £2.50



NDT - Unit 18, Corporation  
St West, Walsall, West  
Midlands WS1 4DU

# DOW COMPUTERS

AMIGA PACKS AT THEIR VERY BEST  
TO ORDER YOURS JUST CALL MANDY, CAROL OR MELANIE

<b>1. CARTOON CLASSICS PACK</b> ★ A500 Computer Pack ★ 1Mb Memory ★ Super Joystick ★ De-Luxe Paint III ★ Lemmings ★ The Simpsons ★ Captain Planet Pack Price	<b>2. ULTIMATE GAMES PACK</b> ★ A500 Computer Pack ★ 10 Fantastic games ★ Disk Box ★ 10 Disks ★ Mouse Mat ★ Dust Cover ★ 512K Ram upgrade (fitted) ★ Super Joystick Pack Price	<b>3. PUBLISHERS PACK</b> ★ A500 Computer Pack ★ Kindwords 2.0 ★ Pagesetter 1.2 ★ Headline Font Pack ★ Tutorial ★ Artists Choice Art Pack ★ Disk Box ★ 10 Disks Pack Price
<b>£369.95</b>	<b>£369.95</b>	<b>£369.95</b>
<b>4. BEGINNERS PACK</b> ★ A500 Computer Pack ★ Wicked 9 game pack ★ Quality Mousemat ★ Pack of 10 disks ★ Super Joystick Pack Price	<b>5. HEROES PACK</b> ★ A500 Computer Pack ★ Indiana Jones ★ Robocop ★ Batman The Movie ★ Ghostbusters II Pack Price	<b>6. STANDARD PACK</b> ★ A500 Computer Pack ★ TV Modulator ★ 1Mb Disk Drive ★ Mouse ★ Speech Synthesis ★ Manual & Work Disks ★ All Leads ★ Joystick Pack Price
<b>310.95</b>	<b>£310.95</b>	<b>£299.95</b>

For extra 512K memory on packs 4, 5, 6 (fitted) add only £24.95 (£28.95 with clock)  
Free 16 day hotel accommodation vouchers with every pack.

<b>ESSENTIAL COMPUTER ACCESSORY PACK 1</b>
★ Competition Pro 5000 joystick .RRP £14.95
★ High quality solid perspex computer dustcover ..... RRP £9.95
★ 20 3 1/2" DS/DD disks with labels ..... RRP £16.95
★ 40 capacity lockable disk box .... RRP £4.95
★ 3 1/2" disk drive cleaner kit..... RRP £4.95
<b>TOTAL RRP £52.75</b>
<b>PACK PRICE £29.95</b>

<b>ESSENTIAL COMPUTER ACCESSORY PACK 2</b>
★ Naksha high quality powermouse ..... RRP £34.95
★ High quality mousepad ..... RRP £8.95
★ High quality solid perspex computer dust cover ..... RRP £14.95
★ Twin joystick/mouse extension leads ..... RRP £9.95
<b>TOTAL RRP £68.80</b>
<b>PACK PRICE £29.95</b>

<b>COMMODORE HARD DRIVES</b>
A590 1/2 Meg..... £275
A590 + 1Mb..... £309
A590 + 2Mb..... £330
<b>1Mb and 2Mb Upgrades fitted FREE</b>

<b>COMMODORE A501 SCOOP PURCHASE</b>
★ Official 512K Ram upgrade for A500
★ Complete with battery backed clock
★ Enclosed in protective shielding
★ Only <u>approved</u> upgrade not invalidating warranty
★ Official Commodore 1 year guarantee
RRP £99.99 SCOOP PRICE £39.99
<b>ORDER WHILST STOCKS LAST!</b>

<b>SOFTWARE BARGAINS</b>
★ Bart Simpson ..... £14.99
★ Deluxe Paint III..... £34.99
★ Captain Planet..... £12.99
★ Lemmings..... £14.99
<b>OR all 4 for £69.99</b>

<b>Complete VIDI Amiga/ST Special</b>
★ VIDI - Amiga or ST
★ VIDI - RGB Splitter
★ VIDI - RGB P.S.U.
★ VIDI - Chrome
★ E180 - VHS Tape
<b>all for £149.95</b>

<b>DISK DRIVE STARTER KIT</b>
★ PC880 3.5" High Quality Disk Drive ..... £89.99 (Features anti-click, on/off, superslim design)
★ Ten 3.5" DS/DD disks with labels ..... RRP £9.99
★ 40 Capacity lockable disk box ..... RRP £9.99
★ 3.5" Disk drive cleaner kit..... RRP £9.99
<b>TOTAL RRP £119.96</b>
<b>Starter Kit Price £59.99</b>

<b>PRICES</b>	<b>SMASHED</b>
<b>RRP</b>	<b>OUR PRICE</b>
Music X V1.1	£149.95
Music X Junior	£79.95
Midi Interface (In-thru-out-out) with lead	£29.95
	£69.95
	£39.95
	£17.99

<b>PACK 1 AMIGA PERIPHERAL PACKS</b>	<b>PACK 2</b>
Megaboard Ram Expansion ..... RRP £49.95	PC 880 3.5" disk drive ..... RRP £89.95
40 capacity lockable disk box ..... RRP £9.95	Megaboard Ram Expansion ..... RRP £49.95
20 3.5" DS/DD disks with labels..... RRP £19.95	40 capacity lockable disk box ..... RRP £9.95
<b>TOTAL RRP £79.85 ..... PACK PRICE £39.95</b>	20 3.5" DS/DD disks with labels..... RRP £19.95
	3.5" disk drive cleaner kit ..... RRP £9.95
	<b>TOTAL RRP £179.75 ..... PACK PRICE £99.95</b>

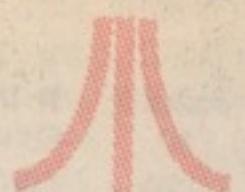
**1992 AMIGA LANGUAGE LEARNING PACK ATARI**  
The French Mistress, The German Master, The Spanish Tutor, The Italian Tutor  
+ **PLUS** +  
The famous Hugo 3 month cassette language course in either French, German, Spanish, Italian

All For

**£29.95**

UNIT 3, FORGE CLOSE, LITTLE END ROAD, EATON SOCON, CAMBS

# NEW PACKS FROM ATARI



## NEW! 520 STE DISCOVERY EXTRA PACK

New pack from Atari comprising:

- ★ Latest Atari STE computer
- ★ 1Mb drive ★ Digital stereo sound
- ★ Dragons Breath ★ Super Cycle ★ Anarchy
- ★ Indiana Jones
- ★ Neochrome
- ★ First Basic
- ★ Atari ST Tour

All for  
only

**£299.99**

Want it fitted with  
extra Ram?

1 Mb RAM	<b>£329.99</b>
2 Mb RAM	<b>£359.99</b>
4 Mb RAM	<b>£439.99</b>

## NEW! 1040 STE 'FAMILY CURRICULUM PACK'

- ★ Latest Atari STE computer
- ★ 1Mb drive ★ 1Mb RAM ★ Stereo sound
- ★ Five modules of software covering:

- 1) Play & Learn
- 2) Junior School
- 3) GCSE Revision
- 4) Business Computing
- 5) Creative Computing

**£349.99**

Want it fitted with  
extra Ram?

2 Mb RAM	<b>£429.99</b>
4 Mb RAM	<b>£499.99</b>

## RAM UPGRADES

520 STE 1Mb RAM upgrade (2 x 256K Simms) .....	£32.99
520 STE 2Mb RAM upgrade (2 x 1Mb Simms) .....	£94.99
520 STE 4Mb RAM upgrade (4 x 1Mb Simms) .....	£174.99

## THE ULTIMATE CARTRIDGE - ST

IT'S A CRACKER!!

- ★ Ultimate Cartridge
- ★ 20 3 1/2" Disks
- ★ 3 1/2" cleaning kit

all for **£39.99**

## ESSENTIAL ACCESSORIES

### Disks

Pack of 10 high quality 3.5" DS/DD ..	£4.99
Box of 10 branded TDK 3.5" DS/DD ..	£7.99
Box of 50 3.5" DS/DD with labels ...	£18.99
Box of 100 3.5" DS/DD with labels ..	£35.99
Box of 250 3.5" DS/DD with labels ..	£79.99
3.5" disk drive cleaning kit .....	£3.99

### Disk Boxes

3.5" 10 capacity Ryford box .....	£1.49
3.5" 40 capacity lockable box .....	£4.95
3.5" 80 capacity lockable box .....	£5.95
3.5" 80 capacity Van 3 (slim design) ..	£7.95

### Mouse

8mm high quality mousepad .....	£3.99
Mouse/joystick extension leads .....	£5.99
Powermouse ST/Amiga .....	£16.99

### Dustcovers

PVC quality covers for computer/ printer .....	£6.99
High quality solid Perspex dustcover ..	£9.99

## STAR PRINTERS

LC10 Mono 9 Pin Dot Matrix 144/34cps .....	£149.95
LC200 Colour 9 Pin, 180/45 cps, 16K Buffer .....	£199.95
LC24-200 Mono 24 Pin Dot Matrix, 200/67cps .....	£239.95
LC24-200 Colour 24 Pin, 200/67 cps, 30K Buffer .....	£289.95

## MICROSWITCH JOYSTICKS

*The only joysticks worth buying,  
full 1 year guarantee!*

### QUICKJOY III SUPERCHARGER

Two fire buttons, Auto-fire,  
Six micro-switches .....

### QUICKSHOT TURBO

Two fire buttons, Auto-fire, six micro-switches ..

### QUICKJOY VI JETFIGHTER

Two fire buttons, Autofire with fast/slow mode,  
6 m/s .....

### COMPETITION PRO 5000

Two fire buttons, steel shaft, Autofire, m/s ..

### ZIPSTICK AUTOFIRE

Two fire buttons, steel shaft, Autofire, m/s ..

### STINGRAY AUTOFIRE

Direct replacement for Konix Navigator ..

### QUICKJOY V SUPERBOARD

Six fire buttons, Autofire, stopwatch,  
Ten m/s .....

### QUICKJOY TOPSTAR - Highly recommended

Two fire buttons, A/f slow motion, 6 m/s,  
see through body .....

### QUICKJOY MEGABOARD

Four fire buttons, 8 m/s, A/f slow motion,  
stop watch, countdown .....



## HOW TO ORDER

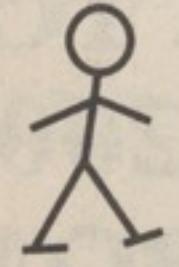


### BY PHONE

Simply call our head office quoting your  
Access/Visa number on

**Mon-Fri 0480 403222**  
**Sat 0480 403304**

By personally calling at  
our St Neots or Hertford Shop

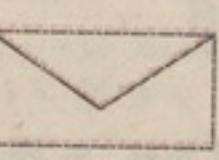


### ST NEOTS

6 Priory Mall,  
St Neots, Cambs  
Tel: 0480  
403304

### HERTFORD

49 Railway St.  
Warren Place  
Hertford, Herts.  
Tel: 0992 554469



### DELIVERY

(UK Mainland, most areas)  
Please add £6 courier delivery for orders over  
£100, add £2 p&p for orders under.

## GOLD CLUB SERVICE

- ★ 7 day money back guarantee if not completely satisfied
- ★ 30 day exchange for new policy should a fault occur
- ★ 1 year guarantee giving FREE collection and delivery service should a fault occur
- ★ Exclusive gold card with personal membership number entitling you to special offers
- ★ All this for a nominal £10 per item over £100

## PLATINUM CARD SERVICE

★ All the benefits of the successful gold card service  
(above) plus the following

- Extended 2 year guarantee from date of purchase. (Peace of mind for 2 years)
- Free use of loan machine if required should yours need to be repaired. (Now you never need be without your expensive purchase)
- Free collection and delivery service for the full two years should a fault occur. (Just make one simple phone call and leave the rest to us!)
- Exclusive platinum privileged customer card entitling you to special offers.
- All of these benefits for the incredible price of just £39.95 per item purchased.

*N.B. In the unlikely case of shortages of identical model loan machines a suitable alternative will be offered.*

## WHY CHOOSE DOW?

### ★ ESTABLISHED OVER 5 YEARS

With a growing reputation for "putting the customer first". We intend to satisfy many more customers for years to come

### ★ TECHNICAL SUPPORT/ON-SITE ENGINEERS

Employing over 20 specialist staff, we are equipped to deal with the majority of queries

### ★ FULL TESTING PROCEDURE

All computer hardware is tested prior to despatch, proving Dow's commitment to customer care

*Prices correct at going to press but may change without notice. E&OE.*

TELESALES ORDER LINE (MON-FRI) 0480 403222/(SAT) 0480 403304

# EXPRESS SALES

## ◆ OTHER

● **GETTING** started PC. Bondwell XT 640K memory. 360K floppy, green screen RVNS. All IBM software. £200 only. 0522 750846.

● **SYNTHESISER** Yamaha DX21 programmable digital synthesiser full size keyboard with full midi compatibility unmarked and boxed as new, two years old. Cost new £695. Bargain at £140. Phone Steve 0579 47298.

● **SINCLAIR** C5 electric car! Damaged, needs simple repairs to electronics and a good clean up, so only £250 o.n.o. Buyer collects. Call Richard on (0573) 26032.

● **AMIGA** programs/graphic artists/musicians wanted, for work on new game for details, telephone either Steve on (0705) 454547 after 5pm.

● **WANTED** Amiga and Atari ST originals write with list to: John Kelly 16-22 Bedford House, Bedford Street, Belfast, BT2 7FD.

● **PRENTICE** Hall, hard back, Micro processor, based design by Michael Slater £15 plus postage. Tel 0489 578634.

**286 MOTHERBOARD, 640K,  
(UPGRADEABLE TO 4M)  
FULL SIZE CASE, 200 WATT  
PSU AND KEYBOARD**

**£139**

**BULL ELECTRONICS**

250 PORTLAND ROAD HOVE SUSSEX BN3 5QT

TELEPHONE ORDERS 0273 203500



PRICE SUBJECT TO VAT PLUS £2.50 DELIVERY



● **AMSTRAD** PCW9512 with Daisywheel printer and software, Locoscript Microdesign, one year old. All original manuals with box, good condition. £400 o.n.o. Phone Rachael on 0525 60287 (Beds) after 6pm. Any evening or weekends.

● **21 ZERO** magazines + cover disks No 12 missing, 19 St Format magazines + cover disks + over 50 N.C.E. + disk boxes for the 30 cover disks. Tel 0773 747987 or offers.

● **PSION** Organiser wanted in full working order with instruction. Ring 0773 745473 after 7pm. (Will pay a good price!) Ask for Paul.

● **DISK DRIVE** (Sony) 31/2 inch 1.44Mb standard connections as new bargain at £40. Telephone Simon on (0905) 772847.

### ★ 20 DS/DD ★

Blank disks, brand new, great offer at only £8. Requests to M. Jacques, 8 Paisley House, Kershaw Street, Laisterdyke, Bradford, BD3 8PA.

● **SPECTRUM 128K+2A** perfect condition, hardly used. All manuals included, mouse, pad and holder, joystick over 80 games, blank tapes, Light Gun, James Bond action pack, Poke books, £195. Phone Peacehaven (0273) 585817 after 6pm.

● **WANTED** computer plus accessories for newcomer to word processing. Welcome all offers: Please reply by letter only. Sorry no phone callers. Charles Trager, 7 Grantley Street, Glasgow, G41 3PT.

● **SUPERBRAIN**. Can you sell me an 8350 Chip (40-Pin) from your obsolete or defunct superbrain. Tel 0232 642687.

● **CAN ANYONE USE** Brother 7800 Golfball typewriter. Requires repairs, comes with hard case, mains lead, two printheads. Welcome small offer. Might suit someone who can repair? Letter replies only. No phone. Charles Trager, 7 Grantley Street, Glasgow, G41 3PT.

● **Z88** with 128K RAM +32K RAM +32K Eprom + mains adaptor + carrycase. Normal price at £250. Will sell for £125. Tel 081 665 6887.

**★ WANTED ★**  
Amstrad CPC Rom listings dissembler for converting CPC programs onto the PC.  
Contact Mark Bowles. 040377 545.  
West Sussex.

● **ARCHIMEDES** Watford b/w video digitiser RISC-OS version in perfect condition. £110. Arc software for sale inc interdictor.

● **57 DANCE** and acid house records for sale. Lots of proms and rare items. Some of unknown matrix. £45. For quick sale phone (061) 430 8195 and ask for Joe after 6pm only.

● **WANTED**. QL hardware or broken QL for spares. Tel 0760 755402.

● **SANYO MBC-553P** two disk drives + disks (works ok but green screen monitor faulty) £60. Buyer collects or pays postage. Philips video camera + power supply (C.V. out) b-w. £70. ST soft-coursewinner + pro punter. £15 each incl. Phone Gosport. 522737.

● **WANTED** ST internals from Abacus will pay full price + postage. Call Steve on 0455 634194.

● **AMSTRAD** magazines in very good condition. CWTA complete set (46 magazines) £40. A.A. 47 magazines between issues one and 66. £40. ACU 85 and 90 few others. £20. Tel Daniel (0843) 33856.

● **IMB** Simm RAM and 80n/s 4Mb Simm RAM 80n/s 19" rack CGA monitor IGB + hard drives. Also goodies for SAE or part exchange. Tel 0860 891893. BBS 0905 754127.

● **HELP!** STFM keyboard faulty, does anyone know what's wrong how to fix it, will pay reasonable fee. Mel, 38 Knype Way, Bradwell, Newcastle, Staffs, STS 8JL.

● **FULL** size Hi-Fi: including TR10 Kenwood KA-990v 110 watt amplifier. Denon DR-M20, 3 head cassette deck. Aiwa F770, 3 head deck. Denon PCM compact disk player. Total £1200. Sell for £350. 0422 378662. West Yorkshire.

## WANTED FOR CASH!

**PC's, Amiga's, ST's, Monitors, Printers & Faxes.**  
**Collection/Delivery arranged.**  
**Computers always in stock.**  
**Cheapest prices in the country.**

**Call 051 2280827 (Computer swap service available).**

● **SYNCRON EXPRESS** MK II disk back up hardware for Amiga: £25. Writeto Pete, 68 Donald Drive, Chadwell Heath, Romford, Essex, RM6 5DU. Fast reply guaranteed.

● **NCE ISSUES** 2-137 complete except Nos 1,3,5. Just £20 the lot o.v.n.o. Tel: 081 542 2071.

● **2"SONY PD1**, 5 new sealed. £15. Phone 0489 578634.

● **SOZOBON** C ST help disk, information to get you started. Send blank disk and stamp (or £1) to: Les Bessant, 188 Brinkburn Avenue, Gateshead, Tyne and Wear, NE8 4JX, or send SAE for list of ST games.

● **WANTED** PSU for Commodore 128 in working order. Also 1541 or 1571 disk drive. Reasonable price paid. Phone 081 517 6772, evenings.

● **YAMAHA T81Z** Multi Timbral Rack Synth inc' Atari 520 edit S.W. great midi music SW. Tel 0723 362440 after 6pm. £195 o.n.o.

● **CORDLESS** telephones - two units with handsets and base units require slight attention. £30 for both units. Tel 061 790 8882.

● **CUMANA**, 40/80 track, double sided, 51/4" disk drive with Shugart connector. Perfect working order. Sell for £55 o.n.o. or swap for external 31/2" Amiga drive. Call (0737) 244792. Ask for Matthew.

● **FOR SALE** Yamaha PSS 780 midi compatible keyboard plus midi leads ins. etc. 100 voices, 100 styles etc. 6 months old, very good condition. £80 for quick sale, p+p included. Ring Simon 0904 625016.

● **WANTED** writers and programmers for ST magazine. All voluntary contributions of articles or programs included on disk/paper based magazine. Write for details to: Andrew Betts, The Mount, Wood Lane, Gallowtree Common, Reading, Berks, RG4 9BG.

### ● SWAP

K Mount SLR camera 28-200mm lens for Apricot XEN min config ZFDD or F10, wanted small screen colour monitor. Phone Mike Volsing. 0480 74551 daytime 0480 75036 after 7pm.

● **QL (JS)**, Philips Pro MO73 monitor, MEC 31/2" drives, trumpcard (256K), Lightening (ROM/SE), Spem keyboard Centronics printer, 65 MDUS, 21 disks, 800+ programs, 9 books (Dickens, Jones etc). Schom keyboard. 61/2 years magazines. All full working order. Phone (0320) 51282 after 1pm. £600 o.n.o.

● **PSION** organiser CM for sale, £45. Also pile of computer magazines, open to offers. Phone Bristol, 0272 825702.

## COMPUTERS

For probably the best prices and deals on Home and Business Computers, Acorn, Archimedes, Atari ST's, Lynx, Commodore 64's, Amiga's, Amstrad, Star, Citizen, Canon, Panasonic, Sega, Nintendo Consoles. Plus printers, disk drives, monitors, memory upgrades and accessories etc. Great deals on PC's.

\* FAX M/C's \* ANSWER M/C's \* PHONES \*  
Joysticks from £4.99 Blank disks 5.25", 3.5" 3"

## SGM ELECTRONICS

19 Charles Street, Wigan, Lancs, WN1 2BP

Tel: (0942) 321435 Fax: (0942) 821273

Mon-Thurs 11.00am - 9.00pm

Fri - Sat 11.00am - 7.00pm or later

Repairs to most makes of computers

● **PSION** Organiser II model XP, never used, unwanted gift, mint condition, plus using and programming the Psion book. No split, £100. 0925 225422. Paul Wilson.

● **SWAP** DEC Rainbow PC100+ computer and printer, including software and manuals for A4 Sinclair or will sell for £200. Phone 081 948 3300.

● **BLANK** disks, I have a hundred high density or DS/DD Sony disks 50p each or 10 for £4.50. Send requests to M Jacques, 8 Paisley House, Kershaw Street, Laisterdyke, Bradford, BD3 8PA.

● **DIGITISING SERVICE**: you pictures digitised with Digiview Gold: Output to disk in Amiga IFF Format from B+W to Ham+. Write for details, enclose £1 for sample disk: S.M.D. 58 Winchester Road, Colchester, Essex, CO2 7LH. Allow 7 days.

● **RECORDS FOR SALE**, very cheap, for free information. Send a SAE to Luke Palmer, 27 Stanmer Villas, Brighton, Sussex, BN1 7HQ. Today! Replies to all enquires.

● **SINCLAIR QL** with Quill, Abacus, Archive + easel plus books covering the full use of programs + Centronics printer interface. Boxed and in excellent condition. £75. Contact Neil 0425 616605.

● **ATARI** 7800 console £50. As new Oric 1 £30. Casio CZ2305 Synth £60. Midi compatible all o.n.o. or swap for Amiga hardware. Tel 0780 721 806. Buyer collects.

● **WANTED** Fury Dice to hang on my 486 VGA computer or one of those men that do moonies in the Window of cars (Boss thinks they are naff). Call Tom James. 071 976 1040 Office hours.

● **MULTISYNC** monitor to SVGA VGC, Can be used with Atari, Amiga, Archimedes £250. 286 MBoard running at 20MHz, 2 meg Ram SVGA card IDE hard, Floppy controller a2S IP IG Port £250. Phone Leon 081 461 5336.

● **WANTED** information on serial 8056 printer what computer its for, can it be used on Spectrum, do I need Interface? If so, where may I beg borrow or buy? Please oblige with information Mr W A Yates, Chorley 0257 278464.

● **WANTED** Atari ST contacts. To swap software (preferably serious software) guaranteed 101% reply. Please write to P Leonard, 14 Killydrum Road, Derrygonnelly, Co Fermanagh, N. Ireland BT93 6PR

WIN WIN WIN WIN WIN WIN

**A MEGA MAIL ORDER VOUCHER**

**DIAL: 0898·886·200**

WIN WIN WIN WIN WIN WIN

CALLS CHARGED AT 34P/45P A MIN. UOD LTD, CA2 5BB

# EXPRESS SALES

● **ARCHIMEDES A310**, Riscos, 2 slot backplane, 20Mb HD, colour monitor, books, manuals, software, disks. £750 o.n.o. Wayne (0703) 243358 after 6pm weekdays only. (Southampton).

● **YAMAHA PSS-680** workstation full midi in/out thru programmable drum machine, built in effects, 61 keys, drum pads, complete with manuals, boxed. £100. 071 9376493 evenings. Peter. Kensington.

● **I FIX JOYSTICKS** and the like. Small fee, payment need not be money! Also Amiga demos for swapping and custom made workbench to suit your needs! 0476 65739, ask for Ben.

● **TWO Apple II** colour computer, one perfect, one needs heads cleaning, but works. Price includes extra D/D, software, manuals, printer card. Also Apple II Emulator. Everything £150. Tel Southampton. 0703 221115 or 20 Shirley Towers, Shirley, Southampton.

● **WEIGH** disks orbatron brand new 4 x 10KG. Also green emerald plant 3ft plus reasonable offers. Warwick 400085.

● **EPSON PX8** notebook size CP/M computer wordstar on Rom, 8 hrs on recharge with case charger etc. £49 o.n.o. 0704 66485.

● **MORLEY BBC teletext adaptor and software**, no ROM, sensible offers. Phone 0489 578634.

● **GUILLOTINE** able to cut 1 ream a4 time. Must work and be very cheap. Local only please. W. Yorks. Tel 0484 650452 Huddersfield.

● **CLIP ART** (PD) for the Atari ST and PC compatibles, 700K of IMG Format clip art per disk (£1) for catalogue send £1 or disk + SAE to 8 College Road, Blandford Camp, Blandford Forum, Dorset, DT11 8BE.

● **WANTED** Amiga Fred Fish PD disks, earn yourself some blank disks in supplying me with these. Tel Gary. 0473 713715 between 6-9pm only.

● **AMIGA/ATARI ST** mouse/joystick switch auto £18 new. Manual £16. Dust cover £4. 6" long mouse/joystick, extension leads £5 pair. Scart. Sharper £15. Ergostick £16. Konix auto/fire switching £10. Can post. Neil, 051 4260138.

● **YAMAHA PSS-780** midi keyboard, including manual, mains adaptor, portable stand, tutor books with cassette £125 o.n.o. Also Datel midi 64/128 interface with cables and advanced music system, cost £40. Accept £20. Mint condition. Tel (0625) 827033.

## SEPTEMBER BARGAIN PRICES THAT CANNOT BE MISSED

■ **AMSTRAD 3" DISK DRIVES**, these are cased and with lead and

■ own power supply, bargain September price only £35.00

■ **AMSTRAD 3.5" DISK DRIVES**, these are again cased and with

■ lead, September price of these £35.00

■ **AMSTRAD PSU** 13.5v at 1.9A encased and with leads and output

■ plug only £6.00

■ **EPSON 3.5" and 5.25" disk drives**, these are double sided, double

■ density but uncased but do come with makers handbook. Price

■ £39.50.

■ **110 WATT ASTEU PSU**, 230v mains operated, outputs of 38v 2.5A

■ and 5v 3A, September price £6.00.

■ **Please add £3.00 postage and package to your order.**

## M&B ELECTRICAL SUPPLIES LTD,

12 Boundary Rd, Hove, Sussex. BN3 4EH.

Tel: 0273 430380 Fax: 0273 410142. Telephone orders welcome

## CHOICE Software



144 London Road,  
Highfields, Sheffield S2 4LT  
Tel/Fax: 0742 555894 VISA

### ★★ DISKS DISKS DISKS ★★

3.5" DSDD 135tpi 'Sony/KOA' bulk disks

Pack 10 (inc labels) ..... 4.25

Pack 25 (inc labels) ..... 10.09

Pack 50 (inc labels) ..... 19.66

Pack 100 (inc labels) ..... 37.19

Branded 3.5" KOA disks (pack 10) ..... 7.99

Amsoft 3" Branded disks (pack 10) ..... 19.99

Please add £2.20 postage on all UK disk

orders. (Overseas please add £3.50

postage). NOTE: all disks are 880K and

100% certified

Please mark all orders 'NCE' and make cheques/PO payable to  
CHOICE SOFTWARE or ring the credit card hotline above.  
Open Mon-Fri 9.30am - 6.00pm Sat 9.00am - 6.00pm

1st for Value

1st for Service

1st for Choice

### ★★ ACCESSORIES ★★

3.5" disk boxes, lockable with perspex lid

40 capacity box ..... 5.49

80 capacity box ..... 6.49

100 capacity Banx box (stackable) ..... 11.99

5.25" x 50 capacity disk box ..... 5.49

**AMIGA/ATARI PUBLIC DOMAIN ONLY**

99p!! Please send 9" x 6" SAE for

free catalogue disk

All prices include postage unless stated

(UK only) EEC/other please add £2.99

● **BBC B** latest issue, DFS, ATPL SWR, ROMs, View, Vstore, Graphics, Sleuth, Help II, Caretaker, Toolkit + Vine, Datapad, Acorn, recorder, Stop Press, keyword, many manuals, tapes, disks. All originals upgraded to Master. Phone 051 3424018.

● **SWAP** my Casio digital diary 32K memory (cost £70). For your Atari Lynx. Will make small cash adjustment. Tel Phil (091) 3853800.

● **ALL SINGING**, all dancing Akai video, exchange or part exchange for Amiga gear. Modem, hard drive, sampler, 24PIN colour printer or what have you to offer. Phone Steve 0782 612393.

● **COMMODORE** disk user magazines Nov/Dec 87 April 91 (28 issues) with disks. £35, includes p+p. Please write to: Stephen, 8 Roddens Gardens, Castleleagh, Belfast, BT5 7JJ or phone (0232) 798559.

● **FAL DISCO** system for sale speakers 100 watt light screen, fuzz light £275, no offers. Ring 021 554 6562.

● **PORTABLE** Tandy 102 computer with manuals (including technical reference), leads, case, and software which includes games, RS232, printer, tape and joystick interfaces, good condition. £230. Tel: 0962 885216.

● **YOUR COMPUTER** magazines, December 1982 to December 1983, offers. 0925 860179 (Warrington)

● **ATARI STFM** with mouse, mat, dust covers, £350+ of games, also business software. (GFA Draft plus, First Word Plus VIP Professional), books and Yamaha DD10 drum bank, new. £300. Phone Mark. 081 6890801. A giveaway.

● **SINCLAIR QL**, 512K upgrade, disk interface, some SW and microdrives £100 ono. Tel 0602 820106.

● **ST Amiga Formats** 10, 11, 13, ST Formats 1 to 9, ST User 7 issues £20 the lot. But no disks, phone Steve 0932 223548 after 6pm also Dungeon Master and Chaos Strikes Back £8.

● **ROLAND CM32L** Multi Timbral Sound module replacement for MT32, £250. Also Roland PC200 Midi keyboard controller £1900, Amiga Tiger Cub sequencer with score editor, Copyist Apprentice, £55. All boxed in mint condition. Phone 0322 863656. Darren.

● **FOR SALE**, Clares Sound sampler Board + Armadeus, Sound Pack, AGE for Archimedes 130VE £120. Also PC Engine + 5 games £180 (PAL). Ring Steve on 0924 407919 (day) or 0924 402430 (eves)

● **RODINE** 20Mb SCSI hard disk for macintosh, 18 months home use only £180. Steven King 0334 73869.

● **WANTED** 1986 ZZAP 64 issues. Also June 1987 (with the free tape). Good condition only. State price. Also any tapes, other magazine features on Commodore 64 musicians. Send lists, prices to: 1 Meadow Way, Littlehampton, W. Sussex BN17 2BW.

● **SPECTRUM + 48K, I/Face 1, 2 drives many carts, music machine, Specdrum £80.00, Brother HR5 serial printer uses fax paper £50, Mastersound 2 for ST £20, TCB Tracker + Cartridge £30.00, Roland TR707 drum machine £140.000, CQ101 £100. 0536 510896.**

● **54 HIGH DENISTY** D/S 3.5" disks + 11 DD, D/S 3.5 disks = 200 capacity box £35 the lot. Computer work station (two tiers) £75, Spectrum 48K + joystick + Games + tape recorder £35 or the lot £125. Tel 0296 25109 (Bucks).

● **NEW COMPUTER EXPRESS** 17 issues, nos80 - 104 except 86, 90, 93, 94, 97, 98, 99, 101, £4. To cover postage. Amiga Format nos 1 and 8 £2.50 each. Sorry no disks. Contact Stephen Sherwin, 8 Roddens Gardens, Castelereagh, Belfast BT5 7JJ.

● **PARALLELS TO SERIAL** converter, use serial printer etc from Parallel port £30, Migrant Ability £20. Wanted internal modem for Amstrad CPC. Phone 0543 372341 ask for Mr Timbrell 9-4 Mon-Fri.

● **PCG'S DTP** for Speccy headliner, typewriter, Wordmaster adn font pack 2, 2 for use on cassette +D for Disciple. £25. Also other Speccy goodies. Send SAE for list to R E Brookes, 50 Foxhollow Coulby, Newham, Middlesbrough, Cleveland TS8 0RU.

● **8000 PLUS** magazine issues 7, 9 and 33 £1 each including postage. (£250 for the lot). Sega Master System games £15 to £20 each. Cost £25 to £35 originally. All excellent condition. Tel Luton (0582) 480887.

## How to place an advert - for free!

### ★ New! With! Plus! Also! Featuring! Etcetera! ★

Did you know you can now attract the attention of Britain's 25,000 most active home computer users with a boxed out ad? That's right! Just £5 buys you two weeks' space in a box very like this one (though note that the limit's 20 words). Simply fill in the form below, remembering to enclose a cheque for £5 made out to Future Publishing Ltd. Couldn't be easier!

Send your cheque for a fiver to: Shopping Express Reader Ads, 30 Monmouth St, Bath BA1 2BW

■ **IF you wish YOUR advert to appear in a box like the one on the left (and how could you not?), THEN simply TICK this box and ENCLOSE a postal order/cheque for £5 made out to Future Publishing Ltd with your advert. NOTE: random use of WORDS in CAPITALS IS NOT compulsory. And here comes that box mentioned above. Any minute. Here it is...**

### Those terms and conditions in full...

- Sorry, absolutely no trade ads under any circumstances (please call Siobhan Kennedy-Coyne on 0225 442244 if you would like to place a display trade ad in this section)
- We cannot vouch for the quality of goods or services offered in this section. All ads are accepted in good faith
- We reserve the right to amend or refuse reader ads at our discretion
- Don't offer pirated software through these columns, if you value your liberty: FAST is watching!
- We can't guarantee reader ads will appear in particular issues of Express - but we'll try
- Ads appear for two consecutive issues
- Please sign the following declaration, which constitutes acceptance of the above terms and conditions:

*My advertisement conforms to the terms above and is legal, decent, honest and truthful*

Signed.....

Send your reader ads to:

Shopping Express Reader Ads,  
30 Monmouth St, Bath BA1 2BW

■ Please make cheques for boxed out ads payable to Future Publishing Ltd

Write your advertisement very clearly indeed in the grid below, one word per box:


Tick the category you wish your advertisement to appear in:

ST  
 Amiga

PC  
 8-bit

Printer  
 Monitors

Software  
 Consoles

Modems  
 Other

## COMPUTER JOBS

# REQUIRED PROGRAMMERS & ARTISTS

Alternative, one of Europe's leading software publishers, are expanding their development facilities.

We require in-house computer graphic artists and professional programmers in Z80, 6502 and 68000.

We specialise in producing quality software involving well known licensed characters.

Competitive salary is negotiable depending upon experience.

INTERESTED? Then contact Roger Hulley or Chris Price on

**0977 797777**

or write in confidence enclosing CV to

**ALTERNATIVE SOFTWARE LIMITED**

UNITS 5-7 BAILEYGATE INDUSTRIAL ESTATE,  
PONTEFRACT, WEST YORKSHIRE WF8 2LN

## DO YOU WANT TO BECOME A PROGRAMMER?

Move across to the rewarding  
world of IT

We have a series of short and long term training programmes in Computing and Information Processing.

- \* C & G 424/425 Certificate in applications programming.
- \* C & G 418 Computer Programming & Information Processing.
- \* Evening courses in DBASE, WP, Spreadsheet Analysis.
- \* Evening courses in Pascal, BASIC & COBOL.

Contact Central London College on  
**071-580 4596.**

**TRAINING FOR YOUR FUTURE**



Established 1968



## STAFF WRITER/PRODUCTION ASSISTANT NEW COMPUTER EXPRESS MAGAZINE

Salary £8,500 - £10,000 according to experience

- Launched in 1985
- Now over 200 staff
- Market leader in computer titles
- Exciting launch plans
- Britain's fastest-growing publisher
- 15 national newsstand magazines -
  - Amstrad Action
  - New Computer Express
  - Amiga Format
  - ST Format
  - Amiga Power
  - Amiga Shopper
  - PC Plus
  - PC Answers
  - 8000 Plus
  - Your Sinclair
  - Commodore Format
  - Sega Power
  - Classic CD
  - Needlecraft
  - Mountain Biking UK

Do you have excellent writing skills? Can you cope with the pressure of weekly deadlines? Are you organised and do you pay attention to detail?

YOU could be the person we are looking for. Future Publishing has an excellent opportunity for our only weekly title New Computer Express, for a staff writer/production assistant, who will be responsible for writing features, reviewing software/hardware, sub-editing copy and collating and compiling an on-line listing of Public Domain and bulletin boards.

Relevant journalistic/publishing experience will be helpful and desktop publishing experience, using Macs with Quark Xpress or other similar programs, will be a strong advantage.

Benefits include profit share and contributory pension scheme - and fast career progression for the right person.

If you would like to explore this career opportunity, send your c.v. to Annie Chalmers at the address below enclosing a 500 word critique on "The strengths and weaknesses of New Computer Express as a magazine".

# EXPRESS ON-LINE

Need to know how to get hold of a fanzine packed full of info on your machine? Then read on

## NEW ARRIVALS ON-LINE

### FANZINES

- ATARI LYNX USER - Competitions, reviews. Send 50p + SAE or just 80p to: Lynx User 11 Montgomery, DR, Spencers Wood, Reading. We need your support.
- LAZERDISK - The Amiga Disk Magazine that's full of utilities, games, demos, etc... Send £1.50 (Payable to J Deavall) to: 57 Adamthwaite Drive, Blythe Bridge, Stoke on Trent, ST11 9HL.
- SPECTRUM ADVERTISER - New Speccy tape fanzine for advertising. Each issue is full of adverts and PD. Send an SAE to my address for more details. Michael McLarnon, 29 Newtown Gardens, Co. Antrim, Belfast, BT 36 7BX.
- 520/1040 MAGAZINE - New Fanzine in preparation. 520/11040 for STs. First issue out soon. Details from basoft PD, 357, Church Road, Basildon, Essex. SS14 2EU. Disk based!!!
- AMOEBA QUARTERLY - Colourful monochrome Amiga fanzine with coverdisk. Send an SAE to 369 Wanstead Park Road, Ilford, Essex, IG1 3TT for further details, now! (Please).
- COIN-OP '91 - Everything on where to stick your 20 pences. Tips, news, reviews, Amiga, ST, consoles. 60 A4 pages. £1 plus SAE to Highover, Udimore, Rye, East Sussex TN31 6BG.

### USER GROUPS

- AMOS USER GROUPS - Is there anybody out there interested in forming

an Amos User Group to help with problems, swap ideas, PD etc. Call Andy 03223 26790

- TRIVIA LEAGUE - For just a SAE and a Team Name you can join The Trivia League, so come on and have some fun. It's for free. Michael McLaughlin, 86 Meiklerig Cres. Pollok, Glasgow, G53 5UF
- AMIGA PD SWAPPERS CLUB - Send list on Disk + SAE. I will return with members' lists on. No companies or people who charge. 35 Rolleston Crescent, Watnall, Notts. NG16 1JU.
- CHESSMASTER 2100 USER GROUP - IBM and compatible computers. Send formatted 3.5-inch disk plus large SAE for details to 16 Manse Field Road, Kingsley, Warrington, Cheshire WA6 8BZ.

### BULLETIN BOARDS

- WIZARD BBS - The small BBS now caters for Amiga owners as well as IBM. Most speeds up to 2400 plus MNP. On-line 5pm-9am weekdays and 24 hours at weekends. Call 0703 702427 now! (Well after 5pm, actually).
- PUBLIC HOUSE BBS - Based in South Wales for Amiga, PC, and ST. Over 100Mb of files on-line, Fido mail and on-line games. Call 022-665 907 24hrs. V21/22/22 Bbs and HST.
- SIGMA IV - 081 330 7738 24 hours. Viewdata. Looking for a board with humour? Then call us today. Downloads and normal computer. Chatty things as well. Established December 89.

## EXPRESS IS NOW ON-LINE!

Join the Express conferences on ASPECTS (061-792 0260) and CIX (081-399 5252)

# Let all the world know

Do you run a user group or bulletin board? Are you organising any event? Do you publish a fanzine? Let the world know about it through Shopping Express. Fill in this form and send it to us at: 30 Monmouth Street, Bath BA1 2BW.

(Tick as applicable)  Group  BBS  Event  Fanzine  PD Library  Virus Warnings/Bugs

Your name .....

Address: .....

● Write your ad in block capitals on the grid below using one word per box.


Close, Bewbush, Crawley, West Sussex, RH11 8GJ

**AMIGANAUTS** Disk Fanzine - Two disks, issue one out now. Only £2.50. Loads of PD demos, reviews etc. SAE for info or cheques/POs to N Gilling, 1 France Furlong, Great Linford, Milton Keynes, Bucks, MK14 5EM.

**AMOEBA QUATERLY** - Amiga fanzine (with cover disk). Send SAE to 369 Wanstead Park Road, Ilford, Essex IG1 3TT for free details now. (Please!)

**ASTAC** - a new Atari ST and console mag. For details send an SAE to Astac, 383A Drayton High Road, Hellesdon, Norwich, Norfolk, NR6 5BG.

**ATARI ST DISK MAG** - Stellar Issue 1 out now. Free PD software, reviews and more. Send double sided blank disk, SAE and £1 to Mark Nobes, Newholme, Aston Road, Chipping Campden, Glos GL55 6HR.

**ATARI ST USERS - ELECTRON** - 2 disks plus 40 page mag. Reviews, articles, games, advice, electronics, software library (PD 50p each) and Chess. £3.50 inc membership (refundable). Andrew Betts, The Mount, Wood Lane, Gallowtree Common, Reading, Berks, RG4 9BG

**AXS QUARTERLY JOURNAL** - The leading light's AXS Quarterly Journal. Amiga disk-based fanzine of PD, Comms, etc. £5 years subscription! Send for yours! 14, Meads Road, Guildford, Surrey.

**C64 RESET POKEs** - Only booklet with over 300 pokes. Only £2. Old and new games. Write to C64 Pokes, 12 Dudley Road, Brighton, East Sussex, BN1 7GN.

**C LANGUAGE** - Bi-monthly newsletter, C source library and BBS. £14pa. Contact Francis Glassborow, 64 Southfield Road, Oxford, OX4 1PA.

**CHESS COMPUTER WORLD** - Independent newsletter with results and ratings from the world of Computer chess. Subscription only. £3.50 a year for four issues. Write to Bryan Whitby, 16 Mansfield Road, Kingsley, Warrington, Cheshire, WA6 8BZ.

**COMPUTER LYNX** - Amiga disk magazine. Only £1.50 plus 50p p&p. Huge range of PD from £1 per disk. Write to 187 Perrysfield Road, Cheshunt, Herts, EN8.

**CONSOLE CRAZY** - New fanzine! With news, reviews and virtual reality sections. Only 80p to: 28 Watergate Lane, Wootton, Liverpool L25 8QJ. An even more amazing issue two due soon, so keep watching these pages for further details.

**CVu** - The journal of the C Users Group (UK), Volume Three, Issue four (May) out now. Price £2 for 60 pages. Write to Francis Glassborow, 63 Southfield Road, Oxford OX4 1PA.

**THE DISK** - Issue 4 for Amiga users, includes - typing tutor, Tron '90, Label Print, Pop info, plus plenty more. Send £1 for 24 hour despatch or phone 0422 844215

## FANZINE LISTING

**FUNZINE 64** – C64 fanzine (issue 1) plus newsletter. Send 50p and stamp to: Lukas White, The Old Church, Newmill, Keith, Banffshire AB55 3UA. Hurry!

**GENERAL AMIGA** – The monthly disk-based magazine. Covering all areas of Amiga computing. Compiled by enthusiasts for enthusiasts. Only £1.50 per issue. Send to: General Amiga, 19 Earn Court, Alloa, Clacks, FK40 1PT.

**GONG!** – The new surrealist spectrum tapezine! 128K only. Send £1 to (address) for one issue. It's a world beater! (But not really!)

**GUG (UK)** – GEOS user group, the only disk-based magazine in the UK. Send blank disk to GUG (UK), 110 Deansway Woodloes Park Warwick LV34 5DQ.

**LYNX USER** – Atari Lynx console user, the brand new magazine dedicated to the Atari Lynx. 35p and large SAE to Lynx User, 11 Montgomery Drive, Spencer's Wood, Reading, Berkshire.

**MAGNETIC MEDIA HANDLE WITH CARE** – Amiga disk fanzine with news, reviews, music, games, utilities, userhelp. At least two disks per month. Each issue £2.80. Write to Magnetic Media HWC, 25 Rigbourne Hill, Beccles, Suffolk NR34 9JC.

**PC-MONTHLY** – A monthly magazine disk packed full with software, news and letters. For more information write to: Richard Lillycrop, 19 Nelson Court, Watton, Norfolk IP25 6EL.

**PC-PLOP** – an interesting and educating read for pc owners and lovers. Send just 60p for latest issue to 8 St John Street, Coleford, Glos.

**PDNR** – PD companies and other PD enthusiasts, send SAE to me for information on a special fanzine. James Thoroughgood, 114 Sandringham Way, Frimley, Surrey GU16 5YF.

**PLAY MATES** – CPC games fanzine called play mates just £1.30 per issue full of reviews and bonzo news. Carl Surry, 37 Fairfield Way, Barnet, Herts, EN5 2BQ.

**PROGRAM PACK** – The all-new spectrum fanzine requires contributions for issue one. You could earn a year's free subscription! Call Alex on 081-777 6241.

**PROJECT 'X'** – Fanzine, club and shareware library for PC owners. Send stamp for details: 48 King William Dr, Cheltenham, Glos GL53 7RP. Prestel 01-111 5474.

**RE-RUN** – 8-bit Fanzine for the Spectrum, C64, Amstrad CPC, BBC, ZX81 and Atari. Only 50p including P+P to: RE-RUN, 1 Northolme Close, Grays, Essex, RM16 2NX.

**SCANNER** – Amiga disk magazine. Packed with games/demos/utils/reviews/competitions plus much more. Send stamped addressed envelope for details to Telescan, Handsworth Road, Blackpool FY1 2RF.

**SPANDEFANG SOFTWARE** – 68000 and coders magazine. For free first issue send stamped addressed envelope and blank Atari ST disk to 4 Cambridge Terrace, Harrogate, N Yorks HG1 1PA.

**ST DISKBOX** – This is the latest diskzine to hit the ST. No need for blank disks. Send £2 to Steven McCarron, 1,571 Dumbarton Road, Scotstown, Glasgow G14 9XE.

**ST GAMES NEWSLETTER** – Games, reviews, previews etc for Atari ST. Send SAE for Newsletter to Ben Dobson, 1 Ryedale Way, Selby YO8 9BP.

**ST WORLD DISK MAG** – Join the fun, buy ST World the brilliant new ST Disk mag! For the pilot issue send £1.50 or £1 and your own disk to Martin Betts, ST World, 5, Hempsted News, Lakeview Park, Chapel Break, Bowthorpe, Norwich.

**STEN** – the ST enthusiasts newsletter issue three now ready. Send a disk and stamped addressed envelope for your copy now. Postal Trivia League starting. Interested? Write to 14 School Road, Morningside, Newmains.

**STOS** magazine, out every month. Send an SAE for full details to 11 Shore Crescent, Bishops, Waltham, Hants SO3 1DZ

**STUD** – The ST users disk. Crammed full of programs on every subject. Send £1.50 to Shane Rodwell, 19 Collings Place, Newmarket, Suffolk CB8 0EX for issue one of *Stud*.

**STYLE** – Free Atari PD newsletter. Published monthly by Jennix PD. For your copy send a SAE to STyle, Jennix PD, 66 Abbey Road, Strood, Kent.

**SYRACUSE ARCHIMEDES DISK MAGAZINE** – out now only £4.99. Includes the magazine disk plus two disks of public domain software. Send to Aste Wythenee House, 10 Alastair Crescent, Prenton, Wirral, L43 0UR.

**THUNDERNEWS** – CBM 64 user magazine on disk/tape. Send SAE for details and competition to 159 Hough Road, Wallsall, West Midlands WS2 9BG.

## PD LISTING IN REVAMP SHOCK

You might have noticed a few differences about *Express* this week. Part of these exciting developments is a new weekly version of the Public Domain listing which has previously been carried monthly on these pages.

You will find the new listing, believe it not, next to the PD Column. Stroke of genius, don'tcha think?

We have also updated it. By that we mean that we have ruthlessly thrown out any libraries which we're not sure are still operating to make sure that it is the most accurate PD listing in any UK publication.

All the major libraries, such as 17-Bit and Amiganuts have been retained, as have all libraries which have had entries in the New On-line section in the past two months. The rest, well I'm afraid we had no choice but to do the decent thing.

### INSTANT SUCCESS

So, PD libraries, if you suddenly find that your entry is no longer listed, write in immediately on the form provided. And any new libraries out there, make sure that you reach the most diverse readership of any computer magazine, drop us a line.

Don't miss this opportunity to expand your library like you never thought was possible. ■

**NDT SYSTEMS**  
**80286-16**  
**£496**

**TEL: 0922 616733**

**FAX: 616737**

All prices exclude Vat. P&P U.K. £7.50  
 By Insured carrier



NDT - Unit 18, Corporation  
 St West, Walsall, West  
 Midlands WS1 4DU

**FlatLiner**  
**80386SX-20, 45Mb HDD**  
**MultiSync 14" Colour, Keybd**  
**Mouse, 1.44, 2Mb Ram, Software**  
**£899**

**TEL: 0922 616733**

**FAX: 616737**

All prices exclude Vat. P&P U.K. £25



NDT - Unit 18, Corporation  
 St West, Walsall, West  
 Midlands WS1 4DU

## THE PLACES TO BE...

### Making the Difference

Now – Tue 31 Dec

At the Science Museum, Kensington, London. For further information telephone: 071-938 8080.

### All Formats Computer Fair Sat 7 Sept

Royal Horticultural Hall, London. Info: 0225 868100.

### PLASA Light & Sound Show

Sun 8 – Wed 11 Sept

At Olympia, London. Info: 071-370 8174.

### EEMA Thu 12 – Fri 13 Sept

European Electronic Mail Association Autumn Conference at the Hotel Thermal, Budapest, Hungary. Info: +44386 793 028.

### Leeds Computer Extravaganza

Fri 13 – Sun 15 Sept

At the New Exhibition Centre, Leeds University. Info: 0532 677 657.

### All Formats Computer Fair

Sat 14 Sept

National Motorcycle Museum, Solihull. Info: 0225 868100

### CP/M & MSDOS User's Group

Sat 14 Sept

At the Spring Lodge Community Centre in Witham. Info: 0376 517496.

### Business Computing '91

Tue 17 – Fri 20 Sept

At the Earls Court Exhibition Centre, London. Info: 071-486 1951.

### International Police Exhibition and Conference '91

Tue 17 – Thu 19 Sept

At London's Barbican Exhibition Centre. Info: 081-995 7700.

### The Works of Charles Babbage

Thu 19 Sept

Lecture at the King Edward VI College, Totnes, Devon at 14.15. Info: 0803 863821.

### All Formats Computer Fair

Sun 22 Sept

At City Hall, Glasgow. Info: 0225 868100.

### Milcomp '91

Tue 24 – Thu 26 Sept

Conference on computers in the military environment, being held at Wembley Conference Centre, London. Info: 0892 544027.

### International PC Security Conference

Tue 1 – Thu 3 October

Covering viruses, piracy, hacking, access control, back-up, data recovery and computer law. Info: 0256 381583.

### All Formats Computer Fair

Sun 6 Oct

At The Brunel Centre, Bristol. Info: 0225 868100.

### Effective Management of Information Technology Security Conference

Mon 7 – Tue 8 Oct

At the Forte Crest Regents Park Hotel, London. Info: 071-587 1117.

### Computers Count Tue 8 – Thu 10 Oct

At Totnes Civic Hall. Info: 0803 863821.

### Business Communications Awards

Thu 10 October

At the Savoy Hotel. Info: 0800 800 847.

### Charles Babbage's Impact on Modern Computing

Wed 23 Oct

At the Science Museum, London at 17.30. Info: 071-938 8196.

### Image Processing '91

Tue 29 – Thu 31 Oct

At Birmingham NEC. Info: 081-868 4466.

### System Builder Wed 30 – Thu 31 Oct

At Sandown Exhibition Centre, Esher, Surrey. Info: 0822 614671.

### Computer Animation Festival

Thu 31 October – Fri 1 November

To accompany the Computer Graphics '91 Conference, this festival will be taking place at the Marble Arch Odeon. (Rescheduled from 5 November owing to a screening of the epic film *Spartacus*). Info: 081-868 4466.

### Computer Graphics '91

Tue 5 – Thu 7 Nov

At the Alexandra Place, London. Topics include computer animation, Virtual Reality and visualisation. Info: 081-868 9933.

### Desktop Cad '91 Tue 5 – Thu 7 Nov

As above.

### Open Systems '91 Wed 6 – Fri 8 Nov

Olympia, London. Info: 0784 472200.

### All Micro Show and Radio Rally Sat 9 Nov

Bingley Hall, Stafford. Info: 0473 272002.

### Computers in the City

Tue 12 – Thu 14 Nov

At the Barbican Centre, London. Info: 081 868 4466.

### World of Commodore Show

Fri 15 – Sun 17 Nov

A show for all things Commodore, presented by the *Amiga Format* team. At Earls Court, London. Info: 0462 420785.

### The Next Generation: Computing with Light

Thu 21 Nov

Lecture at the King Edward VI College, Totnes. Info 0803 863821.

### Vision and Reality

Thu 28 – Fri 29 Nov

A conference on multimedia at Jaarbeurs, Utrecht, the Netherlands. Info: +31 (0)70 3560666. ■

## Computer Technology Fairs

### 1ST SCOTTISH NATIONAL COMPUTER FAIR

### THOUSANDS OF BARGAINS FOR ALL

**For 8, 16 & 32 Bit Computers + Games Consoles.**

**To be held at "The City Halls" Candleriggs, Glasgow.**

**On SATURDAY 7th of September 1991 10am to 4.30pm**

**Only £2.50 admission**

The UK's top discount dealers will be present, selling such goods as new and used systems, spare parts, D.I.Y parts, memory upgrade Simms, SIPPS, D-Rams, boards, disk drives, hard drives, mice, books, blank disks, joysticks, printers, faxes, keyboards, monitors, Public Domain/Shareware, disk boxes, disk labels, VGA cards, cables, P.C. Motherboards, 286/386sx, 386dx, 486, controller cards, mouse mats. In fact everything for the hobbyist to the serious user. Just some of the machines & software catered for: IBM, Compaq, PCs in general, Amiga, Atari, Amstrad, Spectrum, C64, Sega Megadrive & Master System, Nintendo, plus many others.

So for the general buyer and bargain hunters diary, it has to be Saturday the 7th of September at the 'City Halls', Candleriggs, Glasgow. From 10am to 4.30pm. Admission only £2.50.

\*\* SCOTLAND'S LARGEST EVER COMPUTER FAIR. FOR ALL COMPUTER USERS \*\*

Only a few remaining stands available, for booking contact:  
**JENNY at: Computer Technology Fairs on Tel/Fax: 0273 607633.**  
**Or write to: C.T.F. 16 Manor Road, Brighton, Sussex BN2 5EE**

TEL: 061  
773 3897  
Ext 21

# BANKHOUSE

Old Co-op Bldg, Warwick Street, Prestwich  
Manchester. M25 7HN

FAX: 061  
773 0140

## LEISURE

### ATARI

2600 Console with joystick & game	£30
7800 Console 2 joystick & game	£50
Discovery STFM 8 titles	£215
Turbo STE Joy/12 titles	£265
Family 1040 STE 8 titles	£305
(educational pack)	
Lynx Game System	£74
Portfolio	£156
Pro 24 Music Pack ...from	£359.74

### AMIGA

C64 Intelligence Pack	£101
Amiga 500	£258
Screen Gems	£309
Class 90's/1st Step	£390
10 Astro Game Pack	£37
Amiga 1500 Pack	£546
Amiga 2000 Computer	£897
Amiga 3000	...from £1625

### SPECIAL BUSINESS PACKAGE

**Goldstar 286, 40HD, 1Mb Colour VGA, Software, 1 MT 82 24 pin printer including sheet feeder, cables, on site maintenance**  
**£820 While stocks last**

### PORTABILITY SPECIAL

**Hyundai LT3 286 1Mb RAM 20Mb HD. Including Canon MJ10e, Battery Charger, carry case, £799 Limited Stock**

Everex E series	
286/16 40HD Col	£697
386/20 40HD Col	£891
Apricot XEN S	
286 47 HD Col	£845
386 50HD Col	£1010

### MITAC PC'S

286/12 1.2 FDD, 1 Mb RAM, 40Mb HD, Colour VGA	£797
120Mb HD, as above	£972
386/20, 1Mb RAM, 40Mb HD, Super VGA Col	£1299
As above, 120Mb 110	£1494
Mitac PCs supplied with Microsoft Windows 3 & Mouse F.O.C.	

## SEGA

Mega Drive	£119
Game Gear	£79
Master System	£49
Master System Plus	£64
Wide variety of Games Available	

## DISKS

Unbranded ea	10	100	250
350k DSDD	40p	30p	25p
720k DSDD	50p	40p	32p
1.2Mb DSHD	65p	55p	45p
1.4Mb DSHD	1.00	80p	45p

FREE Labels & Disk Boxes

## LASERS

Brother HL4	£719
Brother HL4PS	£1189
Brother HL8E	£989
Brother HL8V	£1079
Brother HL8PS	£1489
Canon LPB4	£695
Canon LP8III	£1097
Canon LP8IIIT	£1487
HP LJIII	£1000
HP LJIII D	£1609
Panasonic KXP4420	£675
Panasonic KXP4450i	£1100
Panasonic KXP4455	£1650
MT904	£699
MT905	£759
MT906	£829
MT911	£1099

### AUTHORISED DEALERS

for Apricot, Everex, MT, Novell and many more  
Phone for Details

## MITAC PORTABLES

3030D 386, 16Mhz	
40Mb, HD, VGA	£1499
As Above + Fax Modem	£1629
3025D 386SX Notebook	
20Mb, VGA	£1499
As Above + 40Mb HD	£1629

Mitac Portables supplied with Microsoft Works  
NB includes Windows 3

## AMSTRAD

GEM 3.	12MD	14CD	14HR
3086SD	421	499	578
3086DD	460	538	617
3086HD	617	538	774
3286SD	499	578	656
3286HD40	734	813	891
PCW8256			£289
PCW8512			£439
PCW9512			£479
ALT386			£1559
ALT286			£1274

## PORTABLES

### TOSHIBA

T1000SE	£472
T1000XE	£626
T1000LE	£941
T2100XE 20	£1130
T1200XE 40	£1256
T2000SX 20	£1669
T3100e 20	£1256
T3100e 40	£1511
T3200SX 40	£2264
T3200CSX	£4217
Hyundai 286	£625
Hyundai 386	£1199

(with free carry case &

file t/fer software)

Commodore CLT	£1025
Phillips PCL101	£449
Phillips PCL203	£1275

## PRINTERS

MT81	£109
MT82	£259
Citizen 120D	£110
LX400	£135
LX850	£199
FX1080	£395
LQ400	£203
LQ2250	£729
Panasonic 1081	£122
Panasonic 1123	£178
Panasonic 1180	£138

## Modems & Fax

Worldport 9600	£585
Worldport 2496	£375
Worldport 2400	£295
Worldport 2423	£253
Acoustic Coupler	£40

## BROTHER PORTABLE

**BUBBLEJET £178**  
(Identical as below)

**CANON BJ10E £205**

## SOFTWARE

Autoroute Plus	£202
Corel Draw 2.0	£299
Framework III	£348
Harvard Graphics	£279
Laplink III	£79
Lotus Agenda	£259
Lotus Works	£105
Lotus 123	£315
Norton Utilities	£108
Microsoft Works	£120
MS Quick BASIC	£59
Paradox 386	£347
PC Tools V6	£89
Smartware II	£414
Superbase 4 V1.2	£349

# AMIGA

- The next stage in Amiga Desktop Publishing with Gold Disk's *ProPage 3.0*
- The spreadsheet package that's set to blast away all opposition
- The Amiga keyboard demystified for kids

Over the next few months, Gold Disk is releasing many new and enhanced products sure to keep the company at the forefront of Amiga developments.

Aside from a major upgrade for perhaps what is the company's best known product, *Professional Page* (see the accompanying box) Gold Disk has a few more tricks up its sleeve.

Here's a run down of what's on offer:

**PERSONAL VIDEO EDITOR** – If you own a camcorder, then you'll probably already be all too aware of how long it can take to edit hours of video footage down into usable chunks. Gold Disk hopes to make this process considerably easier with the release of its Personal Video Editor system which it claims can make the process of video editing considerably easier.

The system comprises a remote control adaptor that plugs into the Amiga. Simply by 'teaching' the remote how to control your video, it will allow the Amiga to take direct control over your VCR.

Obviously you'll need a video recorder that can be controlled via remote, although with videos being both sold and rented at such low prices these days, this shouldn't prove to be too much of a problem.

Unlike most tape editors, Gold Disk's PVE system doesn't employ any form of edit decision list, something that will be all too familiar to professional video engineers. Instead, Gold Disk has designed an intuitive graphic editing system that allows you to view your video productions using a friendly graphics-based front end. The advantage of this is that PVE will be one of the easiest to use video editing systems available.

PVE is still very much in development, although Gold Disk hopes to have it out on the market in November for around £300. Both the price and possibly even the name could change by that time, but Gold Disk is confident that it can keep the price well below £300.

**ANIMATED COLOURING BOOK** – Colouring books have always been a children's favourite and Gold Disk intends to cash in on their popularity with a product which takes the age old concept a step forward.

As the name suggests, the animated colouring book isn't restricted to static images; children can colour in a single frame and then see their colourful creation spring to life.

Unlike most animation systems, children don't have to colour in all the frames. The program will automatically change the colour of every frame after the first has been coloured in.

**PROFESSIONAL DRAW 3.0** – As exclusively reported in a previous issue of *Express*, Gold Disk is putting the finishing touches to the latest release of

## PROPAGE 3.0 EXCLUSIVE DETAILS

I've done it again! Not only was I the first to reveal the existence of both Gold Disk's *Professional Page 2.0* and *Professional Draw 3.0*, but Gold Disk has blessed me with the chance to bring you exclusive news of version 3.0 of its industry standard DTP system *ProPage*.

Details are still very sketchy, but Gold Disk is very enthusiastic about *ProPage 3.0*. Indeed, such phrases as 'the ultimate' and 'absolutely brilliant' were being used with gay abandon.

However, even Gold Disk itself wasn't entirely sure what new features would be included owing to the fact that *ProPage 3.0* is still very much 'in development'.

Despite this, I managed to prise a few details out of the company:

- It will include full on-line help facilities, enabling you to use the program without having to constantly refer to the manual.

- Far more control over text manipulation than previous versions.

- Better control over graphics
- Extended range of Compugraphic/Agfa fonts.

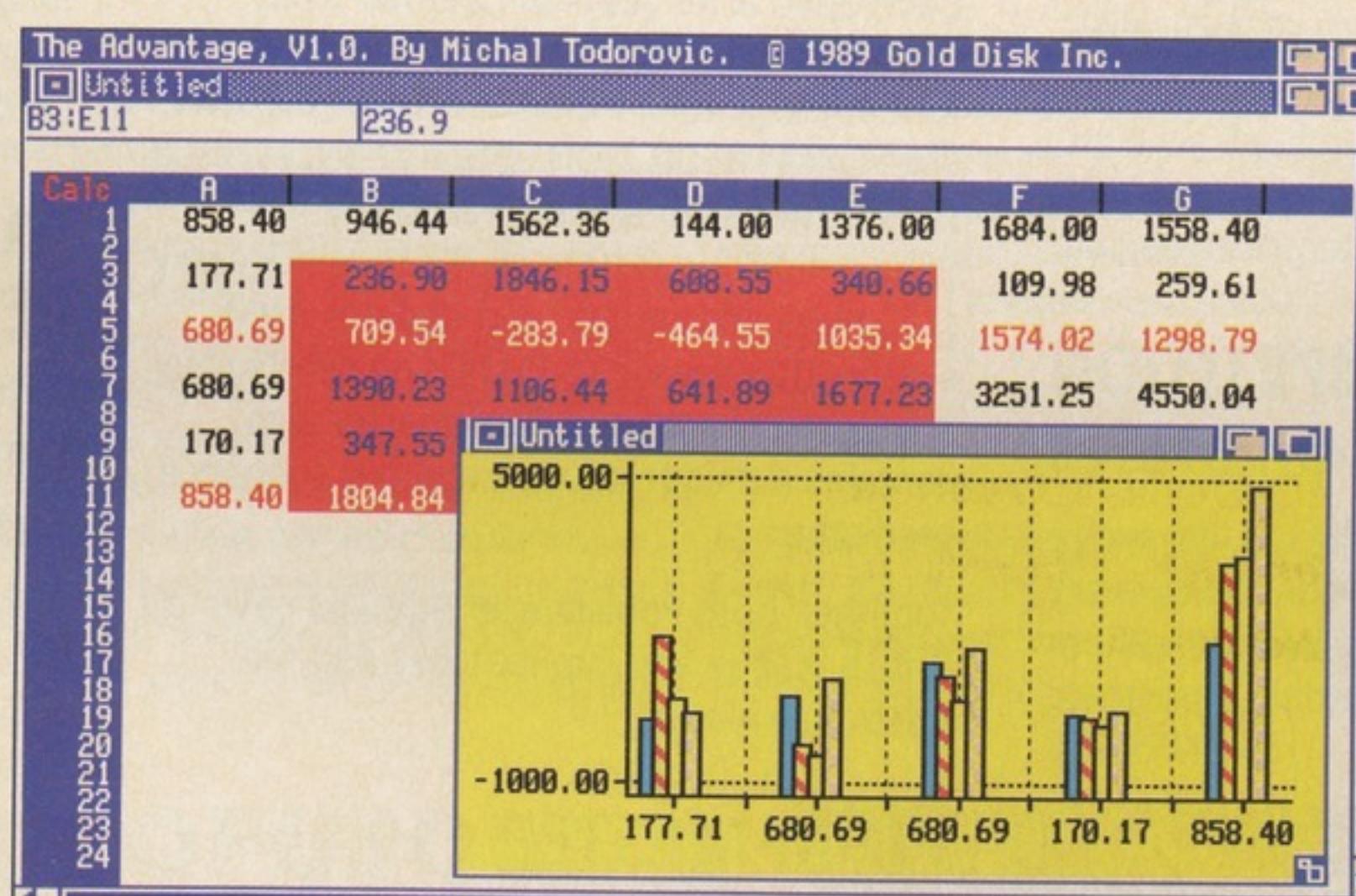
Gold Disk is hoping to release *Professional Page 3.0* in about three months time, although it's probably not a good idea to hold your breath. If you intend buying *ProPage*, then it's still worth buying *ProPage 2.0* and then upgrading to *ProPage 3.0* when it finally arrives. If you hang on for *ProPage 3.0*, you could have a bit of a wait on your hands.

Gold Disk hopes to offer existing *ProPage* users a very cheap upgrade path. Users of version 1.3 of *ProPage* were able to upgrade to version 2.0 for just £40 and Gold Disk claims that a similar upgrade price will be offered to existing users of *ProPage 2.0*.

The upgrade price is still very much undecided, although it will almost certainly not rise too much above the 2.0 upgrade price.



• *ProPage* – look out for a major upgrade in the next three months. With full on-line help facilities and better control over text and graphics, *ProPage 3.0* is the DTP package to watch out for



• Gold Disk reckons that its new, as yet unnamed, business-orientated spreadsheet program is significantly better than its already excellent

its acclaimed structured drawing program.

It seems that the program itself may not be called *ProDraw 3.0*; instead Gold Disk may just release it as an upgrade to the existing version 2.0 and possibly call it *ProDraw 2.1*.

The new program features a *ProPage 2.0*-like user interface which has been designed to take advantage of Workbench 2.0. In terms of features, details are still very sketchy, but we can at least look forward to full Pantone colour support and a massive speed increase in screen rendering.

**PROJECT X** – Business users will love Gold Disk's next major 'professional' release, an as yet unnamed high end business graphics spreadsheet based on its successful *Advantage* spreadsheet.

Gold Disk claims that the new program blows away all similar programs available on the Amiga and even other systems. *Advantage* itself is pretty good (I use it extensively myself), but Gold Disk claims that this new spreadsheet is significantly better. Apparently it boasts one of the most intuitive user interfaces yet developed for the Amiga.

You can expect full reviews of all the above products in *Express* as soon as Gold Disk releases review samples, so stay tuned.

In the meantime, you can contact Gold Disk directly on 0101-416-828-0913. If you can't quite face the phone bill, then contact Gold Disk's UK distributor HB Marketing on 0753 686000.

Jason Holborn

## KEYBOARDS FOR KIDS

'Keys to Please' is a brilliantly simple new idea from Thompson Computers, a new company set up by Arnor's Douglas Thompson. It is a keyboard overlay designed to make computers simple to use for young children.

Thompson created it for his own children who were having difficulties using the existing Amiga keyboard. According to Thompson, young children are taught small (lower case) letters first, so they cannot readily understand a computer keyboard. The overlay has lower case letters printed in large type in the centre of each key with the upper case letter printed in the top left hand corner.

'Keys to Please' is available for a number of different micros (including the Amiga) from Thompson Computers for the paltry sum of just £2.95. You can contact them at 8 Hyholmes, Bretton in Peterborough.

Alternatively, give them a call on 0733 331796. And, as always, don't forget to tell them that *Express* sent you!

SEE  
BELOW FOR  
COMPETITION



### COURSEMASTER

Our proven horse racing program for both FLATS or JUMPS £24.95

\*NEW  
**TRACKMASTER**  
The Greyhound Racing Tipster £19.95  
Coursemaster & Trackmaster Twin Pack £39.95  
(Saving £4.95)

Using simple information from the racing card in daily papers or the racing papers, COURSEMASTER and TRACKMASTER will predict with consistent accuracy.

The winner is predicted as well as second and third places for trifectas. The programs also mention attractive long shots, recommend types of bets and most importantly warn when not to bet.

Successful betting extends beyond merely picking the winners and COURSEMASTER and TRACKMASTER will assist in managing your bets. They work out your winnings on the most popular types of bet including SINGLES, DOUBLES, PATENT, YANKEE, CANADIAN, print out your betting slips, and even maintain your betting bank account. SYSTEM BETS will regularly provide a system for MAJOR WINS with small stakes – try it and surprise yourself.

### COMPETITION Details and rules

Our company likes to see people winning, which is why we're running our fabulous 'Win a pc competition'. With every purchase you make, you will automatically be entered into the draw. You can also enter for free by sending a postcard to INTRASET.

1st prize – PC NT286 Colour  
2nd prize – Complete set of Intraset Business and Gaming Software  
3rd prize – Complete set of Intraset Gaming Software  
5 runners up will each win their choice of one Intraset title.

Intraset's decision will be final on all matters.  
Send an SAE for list of winners.  
Draw dates 28/2/92 and 28/9/92

### SPECIAL OFFER

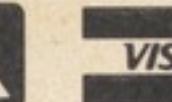
POOLSMMASTER and COURSEMASTER together for £44.95 (Saving £4.95.)

Our complete gaming suite: £110.00  
POOLSMMASTER (British & Australian),  
PERM-MASTER, SPOT-THE-BALL,  
COURSEMASTER, TRACKMASTER  
Saving £22.70



**Intraset Ltd**

Send an SAE for full catalogue



AMERICAN  
EXPRESS

**Tel 0257 276800**

Main office & 24 hour order line

**Fax 0257 274753**

**Help desk 0490 3284**

Weekdays 3-4pm

Overseas orders please add £5.00.

All prices include P+P and VAT.

## WITH *Intraset Ltd*

Our compendium of gaming software uses your computer's intelligence and logic to predict winners and advise you on strategy. Whether you're an experienced punter or a novice, with a little time and our range of software, you can maximise your winning potential.

*'A licence to print money'* Mr FC Hammond of Essex who won nearly £10,000 in 16 weeks

*'We have won many thousands'* Mr PE Roberts of Dorset who so far has won more than £46,000

\*Copies of these and other endorsements from actual customers are available on request.

**POOLSMMASTER** British or Australian £24.95 each.  
Poolsmaster British and Australian £44.95 (Saving £4.95)

### The Football Pools Predictors

Developed after years of detailed study, POOLSMMASTER uses a unique scientific formula to predict Home, Away and Draws. The FORM PREDICTION option analyzes result possibilities with amazing accuracy. The unique indexing system allows for quick entry of fixtures and results, and updates itself season after season so there is no need to buy a new copy each year. Poolsmaster also contains a unique coupon number sequence predictor.

Together, both Poolsmaster editions cover all British league and cup matches and the Australian league.

**PERM-MASTER £19.95**  
The perfect companion for Poolsmaster

Designed for users of PERM systems, PERM-MASTER ends the agony of checking by doing it for you. It comes complete with several of the top perms built in but you can also create your own with the unique PERM EDITOR and PERM CALCULATOR features. PERM-MASTER is fast and easy to use and can be used for most block and single line perms. Additional discs of top perms are available at £14.95 each.

All programs available for IBM/PC & compatibles, all Amstrad PC's, Amstrad PCWs, Atari, Amiga and CPC 6128. Coursemaster, Poolsmaster British and Trackmaster are also available for all Amstrad CPC's, all Spectrums and C64 & 128.

### SPOT-THE-BALL £17.95

There is no more need for counting 'x's or using messy rubber stamps. Simply tell your computer where you think the ball is using the screen template provided. It will give you a print-out of up to 540 micro-fine crosses in your chosen shape or it can chose at random for you. SPOT-THE-BALL learns week after week and builds up a database of results for the SEQUENCE PREDICTOR OPTION.

**GUIDE TO POOLS AND PERMS £14.95**  
The definitive guide to Pools permutations and betting systems

Written by the experts responsible for our successful software range. Master the fine art of prediction by reading this fascinating in-depth explanation of betting systems and perms. Plan a campaign for that elusive big win and use this books' tips on selecting the best matches and races and how to use perms to maximum effect on Pools, Horses and Dogs.

### INTEREST-FREE CREDIT

Spend over £80 and spread the cost at no extra charge! (Cheque purchases only.) Simply divide your order by 4 and send us 4 cheques each with your name and address and cheque guarantee number: Date the first cheque with today's date and post-date each of the other cheques by one month ie. 1/5/91, 1/6/91 etc. We will then hold each cheque until it is due.

Send cheques or postal orders to INTRASET LTD (DEPT NCE) FREEPOST, 10 Woodside Avenue, Clayton-Le-Woods, Chorley, Lancs. PR6 7BR.  
Phone or Fax for lightning service. All major credit cards accepted.

## ST

## INSIDE INFO

- The Bitmap Brothers return with a game that'll be familiar to Motormouth fans
- Fly into combat with 39 other players
- What's new in *Populous 2*? We reveal all



• *Magic Pockets*, the latest from the Bitmap Brothers, started life on a Saturday morning kids' show, but don't let that put you off. Your weapons include snowballs and clouds, but don't let that put you off either

**S**ince the release of their last game, *Gods*, those less-than-reticent user-friendly design peeps The Bitmap Brothers seem to have been resting on their laurels. But with all the hype doing the rounds for their next title, *Magic Pockets*, it seems they haven't been sitting around twiddling their thumbs.

*Pockets*, initially famous for being featured on ITV's *Motormouth* (albeit in a much more primitive form) on Saturday mornings, and then because of the news that no less a musical genius (ahem) than Betty Boo would be doing the music, has been previewed here and there since May. At last it's nearly ready for release.

On the surface *Pockets* seems like your bog-standard platform game, in which you play the Bitmap Kid on his search for a toy on each level. But its

design and execution lifts it far above the usual morass of that genre.

Take, for example, the way your weapons work. On the first level, you throw whirlwinds, their size and power corresponding to how long you hold down the Fire button. These can be used to trap nasties, but if you jump into one you'll be rewarded with bonus sweets and points.

In the second level, a jungle, you throw clouds instead of whirlwinds, which act in virtually the same way – except when it comes to plants. Throw a cloud over the stump of a plant and it releases a drop of rain, which falls onto the stump and makes the plant grow, effectively creating a whole new set of platforms.

The last level is full of snow and ice. Here your weapons are snowballs which you can either throw or roll along the

ground, in which case they gather more snow to increase in size.

The game is full of these small touches that make it a joy to play, including (amongst other things) boxing gorillas, bicycle-riding monsters and jelly babies with a mind of their own. It's been designed to the Bitmaps' customary standard of quality.

*Magic Pockets* is still being play tested but it should be available next month on the Renegade label.

• Renegade is on 071 481 9214.

### AERIAL ACTION OVER THE PHONE

There's been a multi-player game out in America for a few years now called *Air Warrior*.

It's a 3-D combat flight sim which allows 40 people to play simultaneously. It features bombers and tanks, squadrons and the opportunity to defect to the enemy.

Previously, you needed an account with the very expensive GEnie to play it, but now those nice people at On-Line, which brought you the, erm, sort-of-OK *Battlebound* and the really-not-OK-at-all *Challenge Golf*, have brought it to this country.

You'll need a modem to play, but the phone charges are non-premium (ie. not 44p a minute). On top of that you'll need to take account of the £1.50 (plus VAT) hourly charge that On-Line is making for access to the system.

• If you want to know more phone On-Line on 081-558 6114, or log onto *Air Warrior* itself on 081-539 6763 (1-8-N multi-speed).

Ed Ricketts

Ed Ricketts is the games reviewer on ST Format, the UK's biggest and best magazine devoted to the Atari ST. Buy it from your newsagent every month.

### NOTE AND CREATE UPDATE

Avid users of C-Lab's music packages *Notator* and *Creator* will be pleased to hear that versions 3.1 are now available. New features of both packages include:

- Graphic arrangement mode, where patterns are represented by vertical beams and may be arranged simply by clicking and dragging them around.
- 32 track/pattern simultaneous display.
- Fostex synchronisation mode, enabling remote control of Fostex tape recorders via the Fostex MTC-1.

In addition, there are some extra features in *Notator* only:

- IMG export of files, so that printer-ready pages can be saved to disk as IMG files, for use in most graphics/DTP programs.
- Global notation attributes – for instance, all notes with a velocity of 100 or over can have an accent symbol.
- New percussion features – tracks can have a special percussion clef.
- Polyphony – up to three voices of polyphony per stave.

The update costs £20 inclusive direct from Sound Technology. If you have a pre-version 3.0 program £60 will get you a version 3.0 manual, a 3.1 update kit and a large SL binder. Sound Technology lives at Letchworth Point, Letchworth, Hertfordshire SG6 1ND.

• 0462 480000.

## ALL THIS AND *POPOLOUS 2*

The big game this Christmas (and possibly even next Christmas) is very likely to be *Populous 2*. *Populous* is probably the most popular game ever released, at least in terms of sales, so Bullfrog, the game's creator, must have a ready made captive audience. Fortunately, for once it looks as though the game will have sufficient content to live up to people's expectations.

The basic concept of giving your people plenty of land on which to build their houses has remained, but that's about all. You now have the ability to build roads and castle walls and to create real cities. There are 36 disasters you can cast upon your opponent, which include:

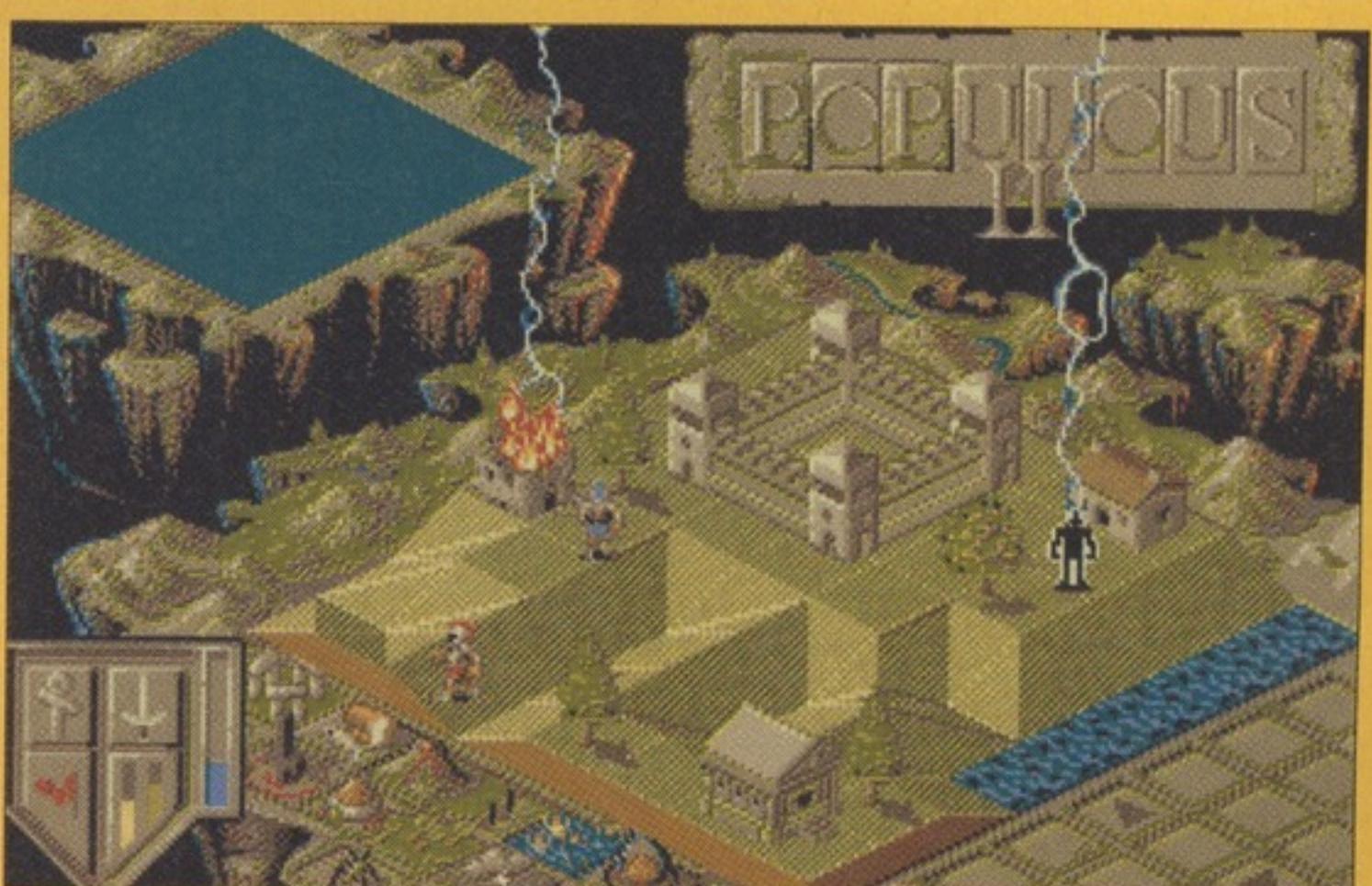
- Plague
- Earthquake (a proper one, with huge cracks in the ground)
- Tidal wave
- Fungus
- Trees (trees?)

- Columns of fire
- A volcano which promises to make its predecessor in the original look like a pimple on a baby's behind.

You can create your own god at the beginning, so the game adapts itself to your particular character, ensuring that the old boast that (I seem to have heard that one before).

You can call down heroes from Mount Olympus, each of which has their own special strength – Helen of Troy, for instance, lures people to their death-by-drowning by seducing them, and so on.

Bullfrog's intention was to put everything that was



- Developer Bullfrog reckons that it has included in *Populous 2* everything that was lacking from the original game. Apparently this includes the ability to grow trees!

lacking from *Populous* into the sequel, and it certainly seems that it has achieved that twice over.

**M**icrosoft's multimedia extensions package for Windows has shipped in the USA. It will enable you to manipulate sounds and animation sequences and offer them a collection of basic sounds and images.

The company has included a series of mini applications – or “applets,” as Microsoft calls them – that enables users to control and edit CD and other multimedia input.

With the full set of extensions, you will be able to add sound and animation clips taken from a sample library included with the product. You can also play, record, rewind and fast-forward sounds with an audio controller.

The multimedia extensions will also include drivers to help you create multimedia presentations.

The drivers, invisible to end-users, will be bundled with a number of third-party software packages, including Gold Disk *Animation Works Interactive* and MacroMind *Action*. The drivers will give these packages multimedia capabilities when they are run on a vanilla version of *Windows 3.0* – but they won't include a user interface or editing controls.

Because of this limitation users will need the full multimedia Windows extensions package, available only by buying a multimedia PC or by buying a multimedia upgrade.

A separate developer version of the extensions will come with MacroMind's *Windows Player*, making it possible for

Viewing Masterbk table: Record 1 of 128					
Masterbk	Date	Employee	Customer	Status	Home Group
1	21.06.87	Christiansen	Aberdeen	DC	Hammers
2	20.10.89	Christiansen	Aberdeen	DC	Hammers
3	20.10.89	Christiansen	Aberdeen	DC	Hammers
4	5.05.89	Morris	McDougal	MR	Investment
5	15.06.89	Chambers	McDougal	MR	Investment
6	12.09	Morris	McDougal	MR	Investment
7	1.12.89	Morris	McDougal	MR	Investment
8	1.03.89	Morris	McDougal	MR	Sports
9	1.03.89	Morris	McDougal	MR	Hammers
10	1.03.89	Morris	McDougal	MR	Investment
11	14.11.89	Christiansen	McDougal	MR	Travel
12	16.01.90	Christiansen	McDougal	MR	Travel
13	16.01.90	Christiansen	McDougal	MR	Investment
14	6.12.88	Morris	Bonnefenne	CA	Travel
15	4.00.89	Morris	Bonnefenne	CA	Sports
16	30.11.89	Kling	Bonnefenne	CA	Hammers
17	30.11.89	Kling	Bonnefenne	CA	Travel
18	6.04.90	Christiansen	Bonnefenne	CA	Hammers
19	16.05.90	Kling	Bonnefenne	CA	Sports
20	13.09.90	Morris	Bonnefenne	CA	Investment
21	29.02.88	Lee	Chavez	FL	Estate
22	13.07.88	Lee	Chavez	FL	

- **• Borland has released cut price versions of Paradox (above) and Quattro Pro, and has also cut some of the features as well**

'movies' created with *MacroMind Director* on a Macintosh to be played on a Windows-based multimedia PC.

Release in the UK is due in next couple of weeks. No pricing is available as yet.

• Contact Microsoft on 0734 500741.

### CHEAPO BORLAND

Borland has just released *Quattro Pro SE* (£49.95) and *Paradox SE*, (£79.95) cheaper versions of its flagship spreadsheet and database products (SE stands for Special Edition).

*Quattro Pro SE*, "...has most of the features of *Quattro Pro*, but there is no interactive WYSIWYG display." However, you will still be able to do WYSIWYG screen previews.

*Paradox SE* lacks some of the high-end development tools, such as the Data Entry Toolkit and the Personal Programmer, but retains support for relational database design, and includes

- **How to gain complete control over a multimedia environment with Windows 3.0**
- **"Microsoft had better watch out" warn the WordPerfect For Windows beta testers**
- **New high quality adventure Shareware shocker**

a 'query by example' utility.  
• Ring Borland on 0734 320022.

### WW WOWS THE BETA TESTERS

"It knocked our socks off," and, "If I were Microsoft, I'd be worried."

These were the intriguing declarations from American beta testers of *WordPerfect for Windows* (WW).

Due for release in October WW includes a button bar that you can customise, enhanced on-screen tools, two graphics modes, and keyboard options.

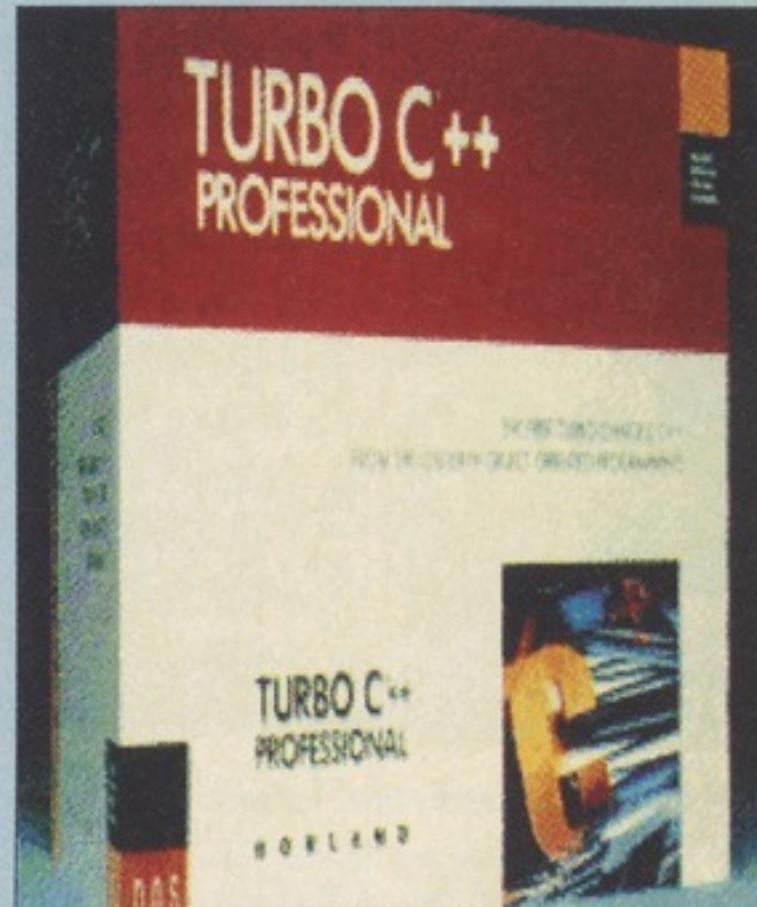
Information gleaned from beta testers reveals that:

- You can put whatever you use – for example, macros or styles – up in the button bar. You can then leave the button bar at the top of the screen or run it down the side, displaying the buttons in any combination of text and graphics.
- You can add columns and rows to a table simply by pushing an icon button.
- The draft graphics and the colour What You See Is What You Get (WYSIWYG) modes make it much easier to import graphics.
- You don't have to go through as many steps or levels to move or resize a graphic.

One tester went as far to declare, "This is the closest thing to a Mac that I've ever seen." Paul Rigby

## FIND YOUR WAY AROUND C++

### BOOK OF THE WEEK



- **Using Borland C++ – over 1,000 pages of essential info for all C++ programmers**

Follow me down to the murky world of the programming language, to a world where it's never rude to 'point', and 'debugging' has been legalised.

Sometimes confusing and a little scary C++ has, nevertheless, proved very popular. But we all need a little guidance so Que's *Using Borland C++* by Atkinson and Atkinson steps in and does an admirable job.

A brick of a book spanning 1,068 pages, it is presented as both a tutorial and reference for Borland C++ and Turbo C++ including both samples and projects.

Targeted at the whole spectrum of C++ expertise, or lack of it, this book covers such topics as:

- The design and development of Windows applications.
- How to build, compile and test your programs.
- Writing prototypes for functions and pass arguments.
- Developing loop control statements and strings.
- Using memory managers.
- VROOM technology, and more.

Well designed and sensibly structured my only real criticism for *Using Borland C++* is that I would have liked to have seen a few sample programs on floppy, especially with a book of this size.

Otherwise I can highly recommend it to any C++ programmer, from beginner through to expert.

Available in the UK via bookshops, computer stores or from Computer Manuals.

• Tel: 021-706 6000

## DARK ADVENTURE LURKS IN SHAREWARE

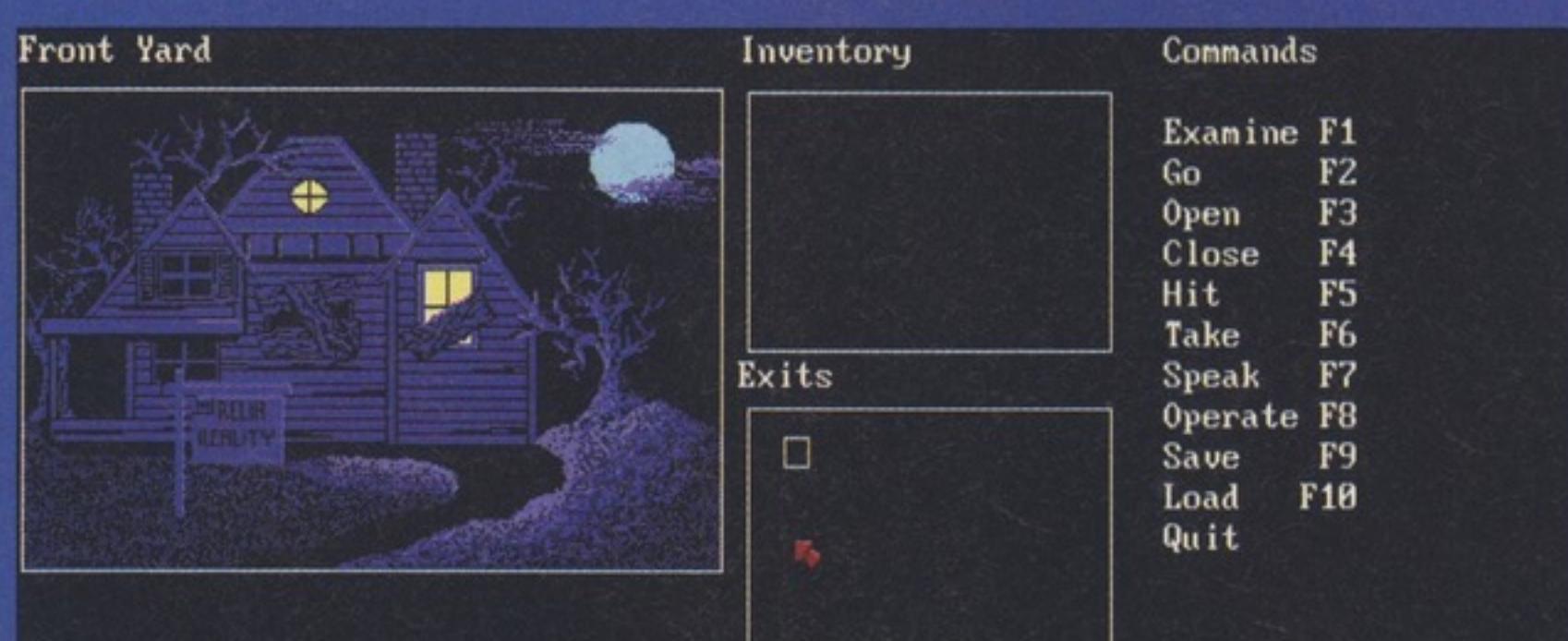
The final installment of the text adventure listings this week. Just one adventure for your delectation but what an astonishing example of shareware programming it is!

*Last Half of Darkness* [Disk 2606] features some superb EGA graphics. It resembles a simplified version of the new games from Legend or Magnetic Scrolls, or even the old ICOM classics, mainly because you can play it without ever using the keyboard.

For example, click on the word 'open' in the word list and click on a door in the graphic window. You'll see a small piece of animation as the door opens. You also see an overhead graphical representation of the available exits – you can click on these too. The function keys can also be used for command entry.

Presentation is divided up into areas. There is a graphic window, a location description box, an 'exits' window and a word listing.

*Last Half of Darkness* could easily retail at £25 and no-one



The moonlight of a full moon illuminates the front of this ghostly house once owned by your great aunt. A strong breeze causes the trees to brush against the sides of the house, making strange sounds. There is a light on in the attic. Better check it out!

- **If you think that all Shareware adventure games are a boring load of wallpaper text, then *Last Half Of Darkness* could change your mind. Graphically pleasing, it also uses a friendly user interface for making**

would ever complain. Do yourself one hell of a favour and obtain yourself a copy of this game!

Contact: PD & Shareware Library, Winscombe House, Beacon Road, Crowborough, East Sussex TN6 1UL.

• Tel: 0892 663298.



### NEW! CARTOON CLASSICS PACK

#### HARDWARE:

512K AMIGA 500 ..... £329.99  
A520 TV MODULATOR ..... FREE  
A501 RAM EXPANSION ..... £99.99

#### SOFTWARE - ENTERTAINMENT

BART SIMPSON ..... £24.99  
CAPT PLANET & PLANETEERS ..... £25.99  
LEMMINGS ..... £25.99

#### SOFTWARE - PRODUCTIVITY

DELUXE PAINT III ..... £79.99  
PLUS! FREE FROM SILICA

ARCADE ACTION PACK ..... £229.78  
PHOTON PAINT 2.0 ..... £89.95

**TOTAL RRP: £906.67**  
**YOU SAVE: £507.67**

**£399**  
SILICA PRICE - INC VAT + FREE DELIVERY

**PLUS!** 16 NIGHTS FREE HOLIDAY ACCOMMODATION



# AMIGA

## STAND-ALONE 500 COMPUTER

- 512K AMIGA ..... £329.99
- TV MODULATOR ..... FREE
- MOUSE CONTROLLER ..... FREE

**PLUS! - FREE FROM SILICA**

- ARCADE ACTION PACK ..... £229.78
- PHOTON PAINT 2.0 ..... £89.95

**TOTAL RRP: £649.72**

**YOU SAVE: £320.72**

**SILICA PRICE: £329**

**PLUS! FREE HOLIDAY ACCOMMODATION**

**£329**  
SILICA PRICE - INCLUDES VAT + FREE DELIVERY

# FREE! FROM SILICA EVERY

### ARCADE ACTION PACK

The new Arcade Action Games Pack is THE software compendium for Amiga owners, featuring ten top titles with a variety of different types of games for you to enjoy. Each title is packaged in its own plastic case, with a colour sleeve and full instructions. The Arcade Action Pack is FREE! when you buy your Amiga 500 from Silica.

**FREE!**

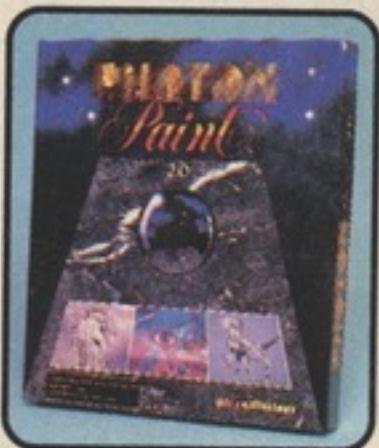
WORTH: £219.78

### ARCADE ACTION GAMES PACK



### FREE! PHOTON PAINT 2.0 GRAPHICS PACKAGE

Every Amiga 500 from Silica Systems comes with a FREE Photon Paint 2.0 (RRP £89.95), one of the most advanced art packages available for the Amiga. With it, you will be able to harness the extraordinary graphics power of the Amiga and produce inspirational pictures in minutes. With 4096 colours, your pictures will reach life-like appearance. These can be animated in real-time using a vast range of graphical effects, including blending colours and dithering, stencils, shadowing, contour mapping and surface mapping.



WORTH  
£89.95

### FREE! 16 NIGHTS HOLIDAY HOTEL ACCOMMODATION

Every Amiga from Silica comes with a FREE 72 page, full colour brochure with accommodation vouchers. These vouchers entitle 2 people to stay up to 16 nights in one hotel (or any number of hotels to a total of 16 nights) with accommodation FREE (you could take up to six nights for four people, or other options). Choose from the 250 hotels featured in the catalogue. All you have to pay for are your meals (prices are listed in the brochure). Reduced rates in top London hotels and hotels in France are also featured.



# AMIGA

## TOTAL FREE PACKAGE

### ARCADE ACTION PACK - £229.78:

- Asterix - By Coktel Vision ..... £24.99
- Chess Player 2150 - By CP Software ..... £24.95
- Drivin' Force - By Digital Magic ..... £24.95
- Live & Let Die - By Elite ..... £19.99
- Onslaught - By Hewson ..... £24.99
- Pipe Mania - By Empire Software ..... £24.99
- Rick Dangerous - By Firebird ..... £24.99
- Rock 'n' Roll - By Rainbow Arts ..... £19.99
- Skweek - By US Gold ..... £19.99
- Trivial Pursuit - By Domark ..... £19.95

### ART PACKAGE - £89.95:

- Photon Paint 2.0 - By Microllusions ..... £89.95

**TOTAL RRP: £319.73**

**FREE!**  
WORTH  
NEARLY:

**£320**

**PLUS! FREE HOLIDAY ACCOMMODATION**

### SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT COURIER DELIVERY:** On all hardware orders shipped in the UK.
- **TECHNICAL SUPPORT HELPLINE:** Team of Amiga technical experts at your service.
- **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 12 YEARS:** Proven track record in professional computer sales.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available for large orders.
- **SHOWROOMS:** Demonstration and training facilities at our London & Sidcup branches.
- **THE FULL STOCK RANGE:** All of your Amiga requirements from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with offers and software/peripheral details.
- **PAYMENT:** By cash, cheque and all major credit cards.

Before you decide when to buy your new Amiga computer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after buying your Amiga, when you may require additional peripherals or software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest Free literature and begin to experience the "Silica Systems Service".

**MAIL ORDER HOTLINE**  
**081-309 1111**

**SILICA**  
**SYSTEMS**

**MAIL ORDER:** 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111  
Order Lines Open: Mon-Sat 9.00am-6.00pm  
No Late Night Opening  
Fax No: 081-308 0608

**LONDON SHOP:** 52 Tottenham Court Road, London, W1P 0BA Tel: 071-580 4000  
Opening Hours: Mon-Sat 9.30am-6.00pm  
Late Night: Thursday until 8pm  
Fax No: 071-323 4737

**LONDON (SELFRIDGES):** 1st Floor, 369 Oxford Street, London, W1A 1AB Tel: 071-629 1234  
Opening Hours: Mon-Sat 9.30am-6.00pm  
Late Night: Thursday until 8pm  
Ask for extension 3914

**SIDCUP SHOP:** 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811  
Opening Hours: Mon-Sat 9.00am-5.30pm  
Late Night: Friday until 7pm  
Fax No: 081-309 0017

To: Silica Systems, Dept NCE 0991 - 60, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

## PLEASE SEND FREE AMIGA COLOUR CATALOGUE

Mr/Mrs/Ms: ..... Initials: ..... Surname: .....  
Address: .....  
.....

Postcode: ..... Tel: .....  
.....

Which computer(s), if any, do you own? .....  
.....

E&OE - Advertised prices and specifications may change - please return the coupon for the latest information.

# THE PD COLUMN

**WOW! What's happened to the PD pages - they've grown, gone glossy and they're even greater than before, that's what! James Leach is still at the helm, but he's tackling even more PD news...**

Everybody's talking 'bout those kinky boots, kinky boots.' In fact they aren't, but if you really want to discuss that kind of footwear, you could do no better than contact Riverdene PDL, who'll supply you (under plain cover) a copy of the *Kinky Boots* song made famous by Patrick McNee and Honor Blackman (of *The Avengers*, no less), programmed by an outfit called The Persistence Of Vision. It'll save the the embarrassment of having to buy it from a record store, I suppose.

### SOMETHING SPECIAL

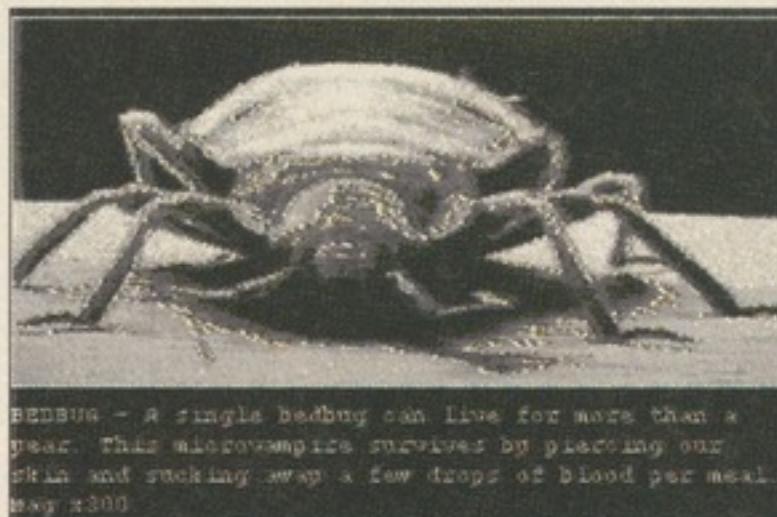
After waiting with baited breath, Amiganuts has also sent me the full version of *OctaMED v2*. It's been a wee while coming, but now it's here it really is something special. And it also has version 3.20 of the four channel MED with it as well.

Although it appears to be classed as PD, the price for the whole package is £20 for all European countries and £25 for those outside Europe. This does include postage and packing (which is considerable as there is a number of disks and a heart-warming amount of documentation included).

If you are registered with Amiganuts as having purchased *OctaMED* version 1, here's an upgrade deal; all you have to do is return the original disk and you'll be able to get the new all-singing all-dancing version for half its advertised price.

### THINGS THAT GO BUMP IN YOUR BED

Pretty nasty, but probably very fascinating is a disk entitled *The Invisible World* from The Disk. It contains images grabbed using an Amiga, the Vidi-Amiga package and a Sony V200 Camcorder.



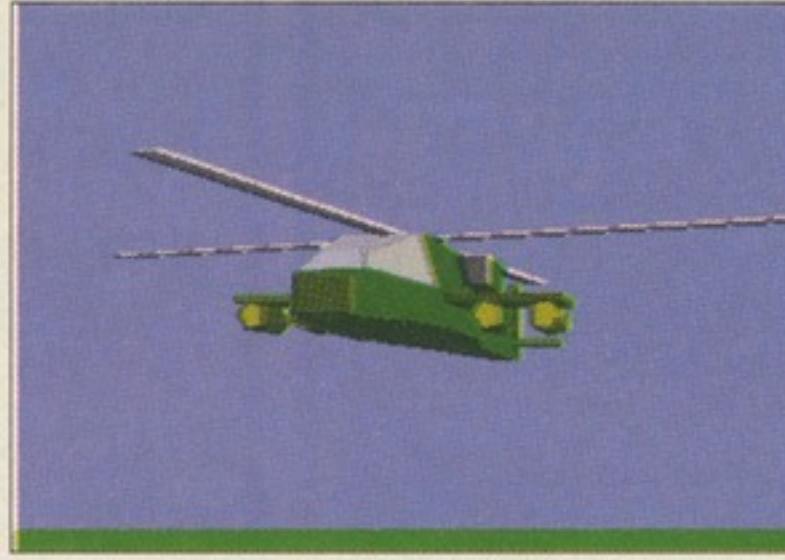
• Learn about lots of tiny creepy crawlies with The Disk

The images are of those rather nasty little things that live in the microscopic world in between our toes, in our mattresses and on the top of our beer. It's actually PD software that blurs the distinction between meaningless (if pretty) slideshows and educational software (you learn as you cringe).

*The Invisible World* will shock you into bathing in Domestos, and is available for only £1 from the Disk. Perfect for frightening the elderly.

### PROPELLOR HEAD

17-Bit Software has just taken delivery of a very impressive piece of animation for the Amiga. Called *Copter Animation*, it features an attack helicopter slicing through the sky in glorious 3D, and is one of the fastest animations I've seen.



• 17-Bit Software's impressive chopper-related animation

This sort of state-of-the-art graphics programming is interesting (and therefore worth getting hold of) because it forms the basis of many of the simulations which will take the computing world by storm tomorrow, so if you want to be there first, keep your eye on what 17-Bit is up to.

### NEW PD NAMES

Singer PD is a new name on the Public Domain circuit. Dealing with the Amiga, it is releasing a steady stream of interactive software (games, in other words). One such disk contains those wholly enjoyable old chestnuts, *Invaders* (a Defender-type game), *Gridrunner* (that old classic from hippy Jeff Minter) and *Rebound* (not from anywhere in particular). They're fun, cheap and they don't come in a huge expensive box. What more could you ask?

Another new name to surface in PD land is State 808 PDL (no prizes for guessing which band it supports). It specialises in both collating and creating music for the Atari ST. Many companies have catalogues of music soundtracks, but State 808 looks like it's aiming to comprehensively cover everything worth listening to. It's an area which deserves more coverage, if only because everybody who is anybody in the 'pop biz' seems to have an ST or two stacked in their studio.

Latest stuff from State 808 includes highly enjoyable musical insights into *The Wild Boys* on one packed disk and *EMF* on another. Yo, kickin' and so on.

### WHAT A HUMDINGER

Telescan Computer Services of Blackpool has got a rather pleasant collection of games together on a couple of disks for the Amiga. In total there are 41 games, hence the moniker



• Simple, quick and fun, it's Burger from Humdinger 41

*Humdinger 41* they've attributed. Some are old favourites which you thought you'd never see again and others are bang up-to-date. The quality, as you'd expect if you're getting 41 of the blighters, isn't exceptional, but if you're into having a quick blast they're certainly up to the job.



• Rebound is an old, but classic game from Singer PD

### SOUTHERN COMFORTS

The South West Software Library has got an ever expanding catalogue of adventure and arcade games for ST-owning enthusiasts who believe that £25 is too much to pay for any software. Here's a quick look at the best of what's on offer from them:

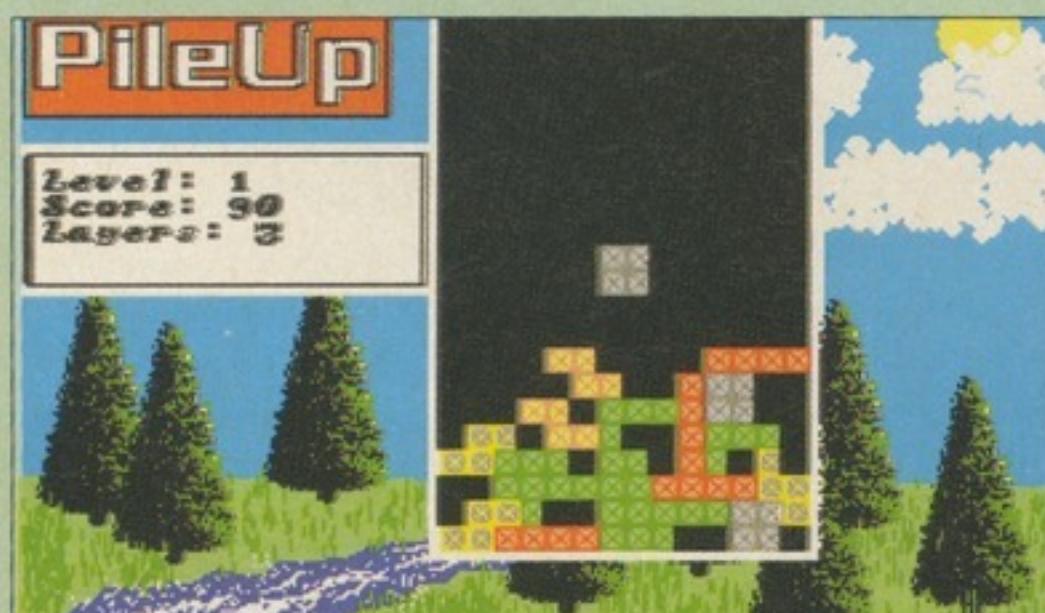
**Don't Bank On It!** This is an adventure created with STAC. In it you

## BATTLE OF THE TILE-STACKERS: PILE-UP VERSUS WORTRIS

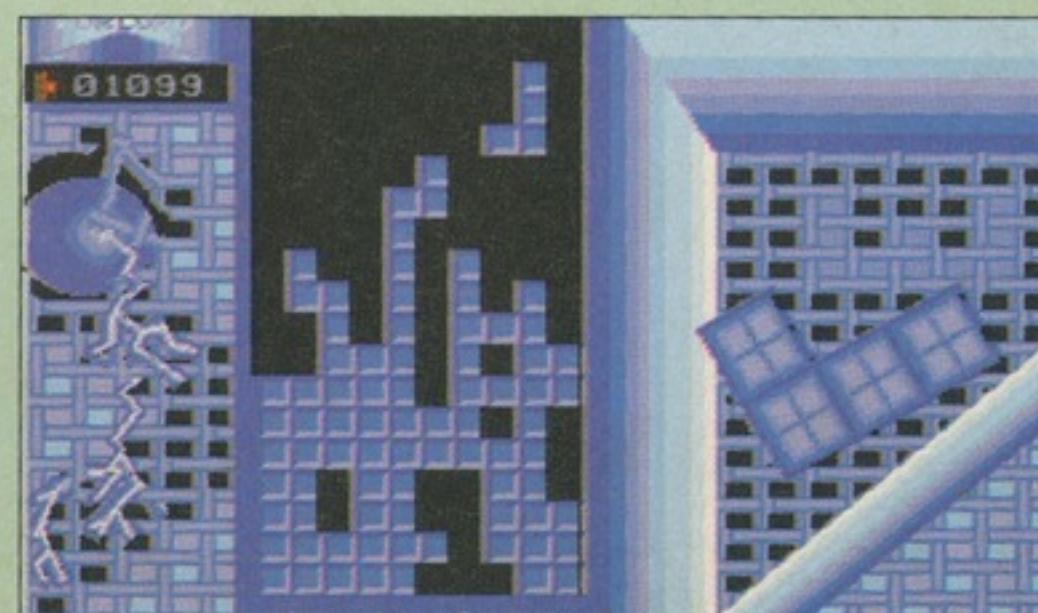
At the moment there seem to be a fair few *Tetris*-style games floating around the PD universe. This isn't surprising since it's been about five years since the original *Tetris* came out.

For those unfamiliar with the game, *Tetris* (and similar games) put you in charge of odd-shaped blocks falling down a screen. The idea is to stack these blocks

by moving them left or right and rotating them. If you manage to stack them without leaving any gaps in the pile at the bottom, the levels you've completed disappear, giving you more room to deal with the next blocks that fall. It's a continuous stream and it speeds up the longer you play, until right at the hectic finish, the pile of blocks (by now riddled with holes) reaches the top of the screen.



• Pile-up's screen is as colourful as you can get!



• Wortris - fast, smooth and fun gameplay

Calling it addictive doesn't do it justice.

Two similar games for the ST are *Pile Up* from Solent Shareware and *Wortris* from Worsoft. Let's take a closer look and find out how they compare:

### PILE UP

This is definitely the more colourful of the two games. It has plenty of options such as starting level, difficulty level and sound on or off. Gameplay isn't particularly fast or responsive and although it speeds up the longer you keep playing, the joystick controls are quirky and this tends to spoil things.

### WORTRIS

It's a bit cyberpunkish, is *Wortris*. The screen is done out in greys, blacks and blue and the blocks that fall are all the same colour. It's much smoother than *Pile Up* and, while it also uses the joystick, there isn't any quirkiness. It's faster, smoother and more fun to play. The only thing *Pile Up* beats it on is the attractiveness of the screen.

play the part of unfortunate Harry Pratt. You're a bit light-fingered and as it's a dismal Monday morning you'll do everything you can to improve your fiscal lot. You've got a plan which should furnish you with immeasurable wealth. But putting it into practice is not going to be particularly easy.

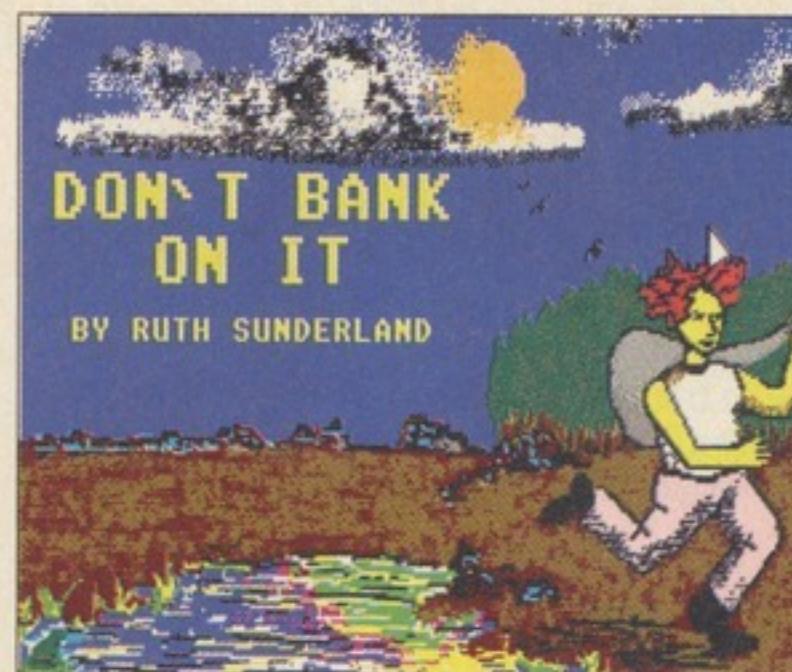
**Don't Bank On It!** is packed with detail the like of which I've yet to see in other PD STAC games. Perhaps the whole thing is more enjoyable because it isn't set in some mystical land filled with orcs, elves and dragons, but it's logical and sensible, and it's got that element of humour which (let's be honest) adventures need in order to stop people slumping over their keyboards in trance-like slumber.

Another South West Software Library adventure worth consideration (it's in a fairly similar vein) is **The Blag**. The tables turn now, as you take the part of a Detective Constable in your new posting at the sleepy village of Woolendon (where as you could certainly guess, all is not as it seems). Again there is a lot of detail and a fair few laughs. Both adventures are warmly recommended.

### ST PD DTP

I've got a bit of a confession to make now. Erm, some readers appeared to think that the recent look at the **PageStream** desktop publishing application from Caledonia Public Domain Library in this column was in fact a review of the program itself. In fact Caledonia is actually supplying a working demo of **PageStream** on PD.

If you got the wrong impression, it might be due to the fact that nowhere did it actually say that it was a demo. Many apologies for that, but if you are on the market for a fully working PD desktop publishing package then Caledonia does indeed have one. It doesn't appear to have any other name than **The Public**



• SWSL says **Don't Bank On It**

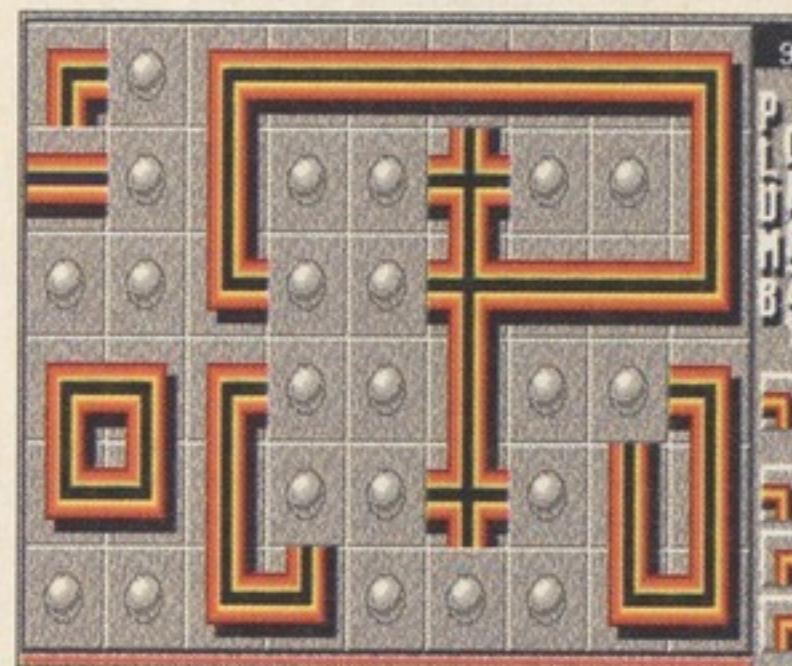
**Domain DTP Prog**, but it's catalogued as **Disk 0009**, so I'm sure Caledonia will know which one you mean.

It has many of the features you'd expect to see on full-blown DTP programs, such as several fonts and point sizes, lots of ways of manipulating the text and even an impressive array of clip-art to paste in to your documents.

Of course you can import text from other sources (in the versatile form of ASCII files from any word processor) and you can load in saved images as well. The program's speed is acceptable and the display, whilst not incredibly easy to read on a colour screen or TV, is certainly workable.

### IF THE PIPE FITS...

Seeing as we're on the subject of PD games that look more than a teensy bit like ones released by major software houses, Nightshift has a game on the ST out called **Plumb Crazy**. It's all about plumbing, no less. You have a gridded screen into which you must place sections of pipe so that they fit together into loops. There are straight pieces, bent pieces and cross-over pieces to slot together, and as you battle with them, a time limit ticks away mercilessly. If it sounds like **Pipemania** (from Empire, published last year), that's because it is like **Pipemania**. But it's a great version and very playable.



• **Plumb Crazy** is a great puzzle

### PD WANTED!

The more perceptive of you may have noticed that the PD Column has grown somewhat. It's an altogether excellent move which will provide greater coverage for all sectors of the PD world.

What **New Computer Express** now needs is more PD software to fill these verdant pages. If you run a PD library for any computer format, please send me the programs which people most want to hear about and see reviewed. This should include games, utilities, serious programs and, to a lesser extent, unusual or

interesting demos and animations (not scrolling messages!). Please remember to include full information about your library, prices and full written or printed documentation about the programs enclosed. Also label the disks clearly with the name of the program and state which machine the software is for.

Send your PD to James Leach's PD Column, **New Computer Express**, Beauford Court, 30 Monmouth St, Bath, Avon BA1 2BW.

### HOUSE OF CARDS

If arcade games aren't your cup of caffeine, the East Midlands Public Domain Library (EMPDL to its friends) has got a disk of card games to while away the hours on holiday (if you've forgotten a pack of playing cards and accidentally packed your ST and monitor instead).

The disk is called **Fourfit**, and the games (with obscure names like **Pyramid** and **Montana**) have their derivation in Patience in that you slide cards from pile to pile, turning them over at random. They're easy to learn, fun to play and well implemented with colourful graphics and mouse control. They're really suited to one player, but nothing precludes others from watching.

### LOSE A FEW BITS

If your ST is tired of playing games, why not let it pretend it's a Commodore 64 or a BBC for a while? Why? There isn't any reason, really. It's just that Goodman's PDL has got a disk out called **Emulators** which has both a C64 and a Beeb emulator on it. When loaded up, both give you a flashing cursor and from there on it's up to you to produce spiffy BASIC programs.

What you can't do, of course, is load or save any data in either Commodore 64 or Beeb format, but you can explore the world of both machines' high-level programming languages.

If it doesn't seem very sensible to turn your 16-bit Atari until an 8-bit machine with about a tenth of the memory, just remember that lots of schools use the BBC Micro to teach children programming, and if all you've got at home is an ST, it might be very useful to be able to set it up as a Beeb for the kiddies. The Commodore 64 emulator, on the other hand, is pretty much useless. ■

## PD LIBRARIES A-Z

You've read the column, so now you want to know where you can get hold of such wondrous and, of course, cheap software. That's where the new lean, mean Express PD library listing steps in to help you out

**8-BIT PUBLIC DOMAIN** – Spectrum, BBC, Amstrad CPC and ZX81 public domain software. Send stamp and 10p for list. Public Domain, 1 Northolme Close, Grays, Essex, RM16 2NX.

**17-BIT SOFTWARE** – PO Box 97, Wakefield, West Yorks WF1 1XX. Tel: 0924 366982.

**ADES PD LIBRARY** – Where all PD is less than £1. Some free. Send SAE for great details. Address 15 Deanes Close Dovercourt Essex CO12 4SH.

**ADPD** – For the cheapest Amiga PD around, some even free. Send SAE for details or disk for lists. 15 Deanes Close, Dovercourt, Essex CO12 4JH.

**ADVANTAGE** – 54 Bath Road, Cheltenham, GL53 7HJ. Tel: 0242 224340.

**AKORE SHAREWARE** – 7 Fishergate Point, Lower Parliament Street, Nottingham NG1 1GD. Tel: 0800 252221.

**AMIGA ANSWERS** – The first integrated programmers PD library and problem solvin service £1.50 for catalogue and invaluable programmers utility disk. Amiga Answers, 11 Mill Hill Road, Norwich.

**AMIGA NON-RIP OFF PD** – For good Demos send disks, return postage to Mark, 50 Victoria Avenue, Sleaford, Lincolnshire NG34 7LN. Most demos: not allowed in profitable libraries.

**AMIGA PD BREAKTHROUGH** – you've tried the rest, now try the best! PD from 18p per disk. Swift dispatch of all orders. Contact Darryl, 12 Kent Avenue, Ross-on-Wye, HR9 5AQ, NOW!!

**AMIGANUTS UNITED** – 169 Dale Valley Road, Hollybrook, Southampton SO1 6QX.

**AMOS PD** – 0942 495261.

**ANDRIKKOS PC LIBRARY** – PC Megapack:

14Mb of highly compacted Shareware, £16 only. Cheque/PO (or SAE for list) to: Andy Kyriacou, 17 Parkhurst Road, London, N22 4JQ.

**ANGLO AMERICAN SHAREWARE** – £1 a disk. Over 2,000Mb of top anglo-american titles. Send two first class stamps for menu driven catalogue disk to 37 Deven Place, Newport, Gwent. Tel 0633 259847.

**ARCH ANGEL PD** – Over 230 disks of Archimedes software. Send 75p for catalogue/demo disk to 9 Chancery Court, Pinhoe, Exeter, EX4 8QE.

**ARCH PD** – Over 200 disks of Archimedes PD. SEnd £1 or SAE and disk to Arch, PO 109, Ferry Road, Hullbridge, Essex, S55 6EL.

**ATARI ST PD** – software to swap. Send SAE plus disk to 29 King George's Road Bishopsworth, Bristol or tel 0272 640217.

**BASOFT PD** – Original PD plus the best of the rest. SAE to BASOFT, 357 Church Road, Basildon, Essex SS14 2EV. £1 per disk. New disk catalogue in exchange for blank disk.

**BEGINNERS' PD** – ST PD starter disks. Two available. Over ten programs. £3 the lot. Write to James Thoroughgood, 114 Sandringham Way, Frimley, Surrey, GU16 5YF. Also send suitable SAE. No cheques.

**BBB (BIG BAD BRIAN'S)** PD library. 3.5-inch only from £1. Send formatted disk and SAE for catalogue to BBB, 35 Grangegrove Ave, Hull HU6 8LP.

**BENETECH** – PC PD. 21 Loughborough Road, Leicester, LE4 5JL.

**BOOT UP PUBLIC DOMAIN** – Amiga Public Domain. Only £1 per disk. Send 75p for catalogue disk to Carol Wellington, 30 Sunnyside Lane, Upminster, Essex RM14 2DQ.

**BUDGIE UK** – 5 Minster Close, Rayleigh, Essex SS6 8SF

**BURMAN'S PD** – Amiga PD for 40p. For a catalogue on disk, a few demos and a game send a stamp and disk to Burman's PD, 41 Pinner Park Gardens, Harrow, Middlesex, MA2 6LQ.

**BYTEBACK** – 6 Mumby Close, Newark, Notts NG24 1JE. Tel: 0636 790097.

**C HACK'S PD LIBRARY** – Captain Hack's PDL. ST Demos/Adult. Free disk catalogue; Blankie 60p plus SAE to 19 Latimer Drive, Laindon, Basildon, Essex. Tel: 0268 416 888.

**CALEDONIA PDL** – 250 Oldtown Road, Hilton, Inverness IV2 4PT. Tel: 0463 225736.

**CAPRICORN COMPUTERS** – 35 Warwick Road, Olton, Solihull, West Midlands B92 7HS.

**CHEZRON SOFTWARE** – 605 Loughborough Road, Birstall, Leicester LE4 4NJ.

**CHRISTIAN COMPUTER CONCEPTS** – Christian PD and Shareware. 5.25-inch only. Ian Hurst, 7 Perrybrook Walk, Ashton in Makerfield, Wigan WN4 8TR.

**CIRCULAR PD LIBRARY** – 14 Morrison Drive, Lennoxton, Glasgow G65 7BA.

**CLYDESDALE SHAREWARE** – 900 megs to choose from!!! Clydesdale Shareware PD and Shareware for PCs from £1.50 for a full disk. Write to Ian Tweedie, 50 Ottoline Drive, Troon KA10 7AW. Tel: 0292 313312.

**DB SOFT** – IBM Shareware. 29 Birchwood Drive, Ravenshead, Notts NG15 9EE.

**DELUXE AMIGA** – Exclusive review of Terminator 2 inside issue 1. Send a £1 cheque/PO to Antony Grace, 2, Furzefield Crescent, Reigate, Surrey RH2 7HQ.

**THE DISK** – Stephen Lord, 6 Stubbington Brink, Hebden Bridge, West Yorkshire HX7 6LR.

**DRAGON PD** – Programmers wanted for Amstrad, CPC 6128 PD library. For more information, write to: Dragon Road, 415 (flat) Whitehall Road, Bristol, BS5 73P.

**DYNAMIX PD** – PC, Amiga and C64 Public Domain. All new and best titles. For free details contact 132 Springwood, Llanedeyrn, Cardiff CF2 6UF. SAE appreciated.

### EAST MIDLAND PUBLIC DOMAIN

**LIBRARY** – 54 Watnall Road, Hucknall, Nottingham NG15 7LE.

**ED'S FREE PDL** – Public Domain for the Atari ST. Send your list for mine. 1-4-1 basis. EJ Carter, 184 Hatters Lane, High Wycombe, Bucks HP13 7LY.

**EDLIB** – Interactive, educational and productivity compilations of PD for Amiga. £1.50. All regular PD only 89p. Graphics Master 1 and 2, graphic image manipulation PD software at only £3. Contact Edlib, Scotland Farm, Stockwood Road, Brinsford, Bristol BS4 5LU.

**ELMHOST** – PO Box 17, Loughton, Essex IG10 2EE.

**ESSEX SHAREWARE LIBRARY** – Beginners pack of the best of PC Shareware. Ten disks £14.99. Cheques/PO to Essex Shareware, 221 Branksome Avenue, Stanford-Le-Hope, Essex.

**FREAKS PUBLIC DOMAIN LIBRARY** – Disks filled with programs of your choice from a huge range. Ribbons re-inked, recycled packaging, send

## PUBLIC DOMAIN

stamp for catalogue to Freaks, 29 Leap Valley Crescent, Downend, Bristol, BS16 6TQ.

**FREEWAY PD** - For the Amiga. Loads of titles for only 99p including postage and packaging. Send disk for list. Freeway PD, 11 Elizabeth Place, Somting, Sussex BN15 9U3.

**GARNER DESIGNS** - Spectrum PD. 57 Lovers Walk, Dunstable, Bedfordshire LU5 4BG.

**GOODMAN PDL** - 16 Conrad Close, Meir Hay Estate, Longton, Stoke-on-Trent, Staffs ST3 1SW. Tel: 0782 335650.

**IMG CLIP ART** - GDOS fonts for sale or swap. For catalogue send blank disk plus stamped addressed envelope or £1 to E Renner, 62 Broxholme Lane, Doncaster.

**JACKSON'S PD SPECTACULAR** - Amiga PD. D Jackson, 22 Victoria Court, Clifton Road, Worthing, Sussex.

**JAMES & JAMES PD** - Atari PD from £1 disk. Bristol 668137. PD swapped and sold.

**JASE PD LIBRARY** - utilities, games, demos etc. Only £1.25 per disk. Write to 9 Broadfield Square, Enfield, Middx EN1 3PA for a catalogue or send £1 for catalogue disk.

**JAY-DEE'S PUBLIC DOMAIN SOFTWARE** - Jay-Dee's PD Amiga disks only 40p each for catalogue send SAE and disk to Jay-Dee, 389 Scalby Road, Newby, Scarborough, North Yorkshire. Catalogue updated monthly.

**JENNIX PD** - Fast efficient and friendly service. Disks 90p each. Send 50p for a custom written cat disk to Jennix, 66 Abbey Road, Strood, Kent.

**JPDL** - Atari ST PD. Double sided disks supplied wherever possible. Blank disk and SAE or 70p to: J Kilner, 120 Wiggington Road, Tamworth, Staffs B79 8RW.

**KEANOSOFT PD** - ST PD for sale. Send SAE and blank disk for copy of latest catalogue. Write to Keanosoft PD, 42 Lords Croft, Clayton-Le-Woods, Nr Chorley, Lancs PR6 7TP.

**KEV'S PD** - Amiga PD. £1 per disk. K Larkin, 12 Hathaway Court, Cheriton Road, Gillingham, Kent ME8 0ES.

**L & D PD** - Amiga PD from 35p per disk. Monthly competition to win PD of your choice. Also a new digitising service is available. For info send SAE and disk to L & D PD, 10 Hornbeam Green, Pontefract, West Yorks WF8 2DX.

**LAPD** - Worldwide reputation for quality PD for the ST. Thousands of programs available. Disk catalogue only £1.00. Credit cards accepted. Telephone 0773 605010 or 0773 761944.

**LARD PD** - Only 95p per disk. Amiga only. For catalogue write to Lard PD, 41 Craven Road,

Hemsworth, West Yorks WF9 4SB. Enclose SAE.

**LEMMING SOFT** - Amiga demos to swap. over 300 disks. List keeps growing by the day also want two meg demos write to: John Simmons, Flat 45, 2 Silvermere Road, Sheldon, Birmingham, B26 3XA.

**MASTER PD** - Amiga PD to swap and sell. Send SAE and list to A Hines, 44 School Lane, Easton Bray, Bedfordshire, LU6 2DT 100 per cent reply.

**MERTON PD** - Cheap Atari ST PD. Send £1 or blank disk for catalogue with SAE (cheques payable to T Hud) to: 10 Grasmere Avenue, London SW19 3DX.

**NEURAL IMAGES PD** - Send an SAE to 4, Flint Walk, Throston Grange, Hartlepool, Cleveland. TS26 DTE for your free PD Disk. No catches!

**NIGHTSHIFT** - 8 Bertelin Road, Beaconside, Stafford ST16 3JJ.

**OWN PC CLUB 7 SHAREWARE** - 73A East Street, Blandford Forum, Dorset DT11 7DX. Send blank disk plus stamp for catalogue. 25p each prog.

**PAD PD AND SHAREWARE LIBRARY** - For the Amiga user. Send SAE for details to: PAD Public Domain Library, 41a Saint Augustine Street, Norwich, Norfolk, NR3 3HF.

**PARADISE COMPUTERS (GLOBAL)** - 9 Westfield Crescent, Brighton, East Sussex BN1 8JB.

**PAWS PD** - Lichfields only PD library. All disks £1 each. Swaps welcome. Send a stamped addressed envelope for list to: Anthony Cooper, 14 Purcell Ave, Lichfield, Staffs WS13 7PJ.

**PROPHECY PDL** - Atari ST Public Domain. Send SAE and disk or a cheque for £4.50 to Prophecy PD, 390 Coulsdon Road, Old Coulsdon, Surrey, CR5 1EF. We have very competitive prices.

**RIVERDENE PDL** - 30a School Road, Tilehurst, Reading, Berks RG3 5AN.

**ROBOT PD** - 2 Trent Road, Oakham, Rutland LE15 6HF.

**SAINT JOHN'S SCHOOL LIBRARY PDL** - Atari/ST PD software for sale or swap. Write to St John's School Library PDL, c/o Mark Ash, 54 Beaconsfield Road, Sittingbourne, Kent. ME10 3BB or telephone 0795 425653 after 4pm.

**SCOTBASE PDL ASSOCIATION** - Affordable Shareware for PC users. Blank disk and SAE for catalogue and details to: Rosie, 63 Springboig Road, Glasgow G32 0DB.

**SHAREWARE ELITE** - Over 1,300 shareware disks for PCs. Send blank disk and SAE for full catalogue to 25 Cades Parc, Helston, Cornwall. Tel: 0326 564164.

**SHAREWARE KING** - 3,000 items of Shareware for PC, plus support, membership, plus discounts. SAE and blank disk for details to C Smith, 10 Penwood Close, Westbury, Wilts, BA13 3LW. Tel 0373 865263.

**SHIELDSOFT PD** - Now from only 50p per disk. Catalogue disk 75p. For details SAE to M Daniels, 63 Churton Road, Rhyl, Clwyd LL18 3NB.

**SINGER PD** - 62 Manor Rd, Hastings E Sussex TN34 3LJ.

**SOLENT SOFTWARE** - Atari ST. 53 Rufus Gardens, Totton, Hants SO4 3TA.

**THE SOURCE PD** - For the Atari ST. Compacted demos disks. £1.50 each. Write to: The Source PD, 7 Shearwater Lane, Norton, Stockton, Cleveland TS20 1SH.

**SOUTH WEST PD** - PO Box 562, Wimbourne, Dorset BH21 2YD.

**THE ST ADVENTURER'S PD LIBRARY** - PD for all ST users. Adventure, more adventure and even more adventure. Catalogue disk just 50p. Write to John R Barnsley, 32 Merrivale Road, Stafford, ST17 9EB.

**ST ICE PDL** - Send blank disk or £1 for great catalogue with programs included. Quality disks, viruses checked. All disks £1.80 including p&p. Write to 7 ST James' Close, Kettering, Northants NN14 5HB.

**STAR PD** - Atari ST PD library fast 'n' friendly! Send blank disk and SAE. for free PD and our disk-based catalogue: Star PD, 1 Solva Road, Clase, Swansea SA6 7NX.

**STATE 808 PDL** - Atari ST demos, art packages and soundtrackers beyond belief. Very cheaply priced. Send blank disk to: State 808, 3A Old Lanark Road, Charluk, ML8 4HW.

**START COMPUTER SYSTEMS** - Dept A, Barbican House, Bonnersfield, Sunderland SR6

0AA. Tel: 091-564 1400.

**STUPID FLOWER PD** - new library for ST users. Send an SAE for a free catalogue to SFPD, 3 Read Mead, Glastonbury, Somerset BA6 8ON or call 0458 35027 and ask for Matt.

**TANK PD** - disks only 60p (members), 75p (non-members). Prices include p&p. Hundreds of titles. Send blank disk and SAE to: 4 Chandos Road, Redland, Bristol BS8 6PE.

**TOWER TOP PDL** - The Coragen Corporation, 4 Cardigan Close, Bletchley, Milton Keynes MK3 7EJ.

**TRUST PD** - 18 The Park, Southawram, Halifax, HX3 9QY. Tel: 0895 53521.

**VENUS SHAREWARE** - IBM Shareware: Amateur radio, technical, engineering, education, Windows utilities and more. Telephone 0252 837860 for your free catalogue.

**WARLOCK PD CLUB** - New Amiga club and library all tested and virus free (MVK 2.1). No membership fee. Tel Mark on 0582 761723. 2 Manland Avenue, Harpenden, Herts AL5.

**WINDMILL SOFTWARE** - Our catalogue describes programs not disks. Disks filled with your choice. SAE and 50p or disk for ST catalogue to p Raeburn, Windmill Software, 360 Windmill Road, Ealing, London W5 4UR.

**WIZBIT PUBLIC DOMAIN LIBRARY** - New Macintosh PD library. Disks £3 each. Around 100 disks available. Introduction pack £1 from Wizbit PD, 38 Greenbank Gardens, Edinburgh EH10 5SN.

**WOODY'S PD** - ST library where you choose individual programs to fill your disks. Send disk or three first class stamps for disk catalogue.

**WORSOFT** - Michael Andersson, Tjardalsgrand 11, 18341 TABX, Sweden.

**ZEONS LAIR** - Free C64 PD software send 35p stamp for details to Zeons Lair 4 Garden Close Penrith Cumbria CA11 7LD.

Remember, inclusion in this list does not mean that Express endorses or recommends any individual library. If you do find any that you are particularly impressed with, or, on the other hand, you think are a complete rip off, then don't hesitate to get in contact with us at NCE, 30 Monmouth Street, Bath, Avon BA1 2BW



## AMIGANUTS UNITED

169 DALE VALLEY ROAD, HOLLYBROOK, SOUTHAMPTON, SO1 6QX.

Sorry - Now Mail Order only.

**WORLDWIDE DISTRIBUTOR OF THE DEDICATED AMIGA CODERS CLUB DISKS**  
**EUROPEAN DISTRIBUTOR FOR THE WORLD FAMOUS T.BAG DISKS FROM**  
**MERLIN SOFTWARE**

BUG-BASH: Kill the bugs, clean up the trash in the garden. A great kids game.....£3.00  
1036: AMIBASE PROFESSIONAL II. (V1.2) The new additions to this database make it a must have, it includes a nice picture addition facility. (1 Meg).....£3.50  
877: 1 ACROSS 2 DOWN. A fully fledged crossword program, (data disk no.1 is supplied free!), for only £5.00. Data disks 2, 3, 4 and 5 now ready at £2.00 each  
1038: SUPER AMIDASH. Do you remember that good old Commodore 64 game Boulderdash? Well here is your chance to have that fun again. (1 Meg).....£3.00  
1068: MOD PROCESSOR V1.92. Make picture and/or music progs, adjust pic height/width. This version will load the new 8 channel OctaMED music and is excellent!.....£3.50  
1075: INTUIMENU. The easiest way to execute your programs. By Nicholas Lewis.£3.00  
1100: SCHOOL TIMETABLE CREATOR. (Print your timetable). By Keith Grant. (1Mb)£3.00  
1102: THE SPRITE DESIGNER. A good way to draw/save Sprites. By Frank Tout....£3.00



## THE NEW (1Mb) EIGHT CHANNEL MIDI COMPATIBLE OctaMED V2 IS HERE!!!

It now contains full notation, including a notation editor with notation printing, 5-7 channel modes for high quality, non-CPU stressing audio/split channels, sixteen track display for Midi use and a host of other new \*MED\* features.

**\*The new V3.20 of the public domain four channel Med is also encoded into this excellent program and you can switch from 8 to 4 channels at will\*.**

Price is £20.00 for all European countries, (£25.00 for non-European), inc VAT (but not post/packing). Payment in pounds sterling only. If ordering from overseas send a bankers order/Eurocheque etc. (Credit card orders will not be accepted).

## IMPORTANT NOTICE TO ALL REGISTERED PURCHASERS OF OctaMED V1

If you return your original Amiganuts disk, containing V1, you can have V2 for HALF PRICE, (ie. £10.00 Europe).

**REMEMBER**, you must return your original V1 copy.

**EVERY ORDER FOR V2 WILL BE ENTERED INTO THE OctaMED V2 FREE PRIZE DRAW**

**1st Prize:** Golden Image Hand Scanner

**2nd Prize:** LCD Colour TV

**3rd Prize:** £50.00 free progs.

## MASTER VIRUS KILLER V2.2 IS HERE!

Recognises another 27 of the little buggers, including the Virulent SHA!!! A program that every Amiga owner should have.

**£5.00**

69p

# SPECIAL OFFER AMIGA PD

69p

\* = 1MB  
(2) = No of disks

YES IT IS TRUE PD FOR JUST 69p - OFFER ENDS 31/12/91  
HERE IS A SMALL SELECTION FROM OUR VAST RANGE  
OVERSEAS ORDERS ADD 25p A DISK FOR EUROPE 60p R.O.W.

ENQUIRIES TEL:  
0424 712349

**DEMOS**

- D113) Silents Scroller
- D115) Utopia Cartoon Slides
- D117) Bunsen Burner
- D119) The Link Megademo
- D122) Ghost Pool
- D124) Scoopex Seven Sins
- D126) Disney Slideshow
- D128) Sleeping Bag Demo
- D130) System 5 Demo
- D132) Alpha Flight Megademo 2
- D134) Share And Enjoy 46
- D136) Thames TV Demo
- D138) Vision Megademo
- D140) Fast Cars Slideshow
- D142) Mobed
- D145) Kefrens Wall Demo
- D147) Beast 2 Preview
- D149) Treacl
- D151) Share and Enjoy 47
- D153) Simpsons Mini Mega (XXX)
- D155) Glass World Animation
- D157) Congaman Animation
- D160) Anarchy Scratch Pack 39
- D162) Bugs Bunny Anim\*
- D164) Smurf +Cokeman Anims\*
- D166) Jugette Animation

**UTILITIES**

- P02) A68K Assembler
- P04) North C
- U001) Jazzbench
- U004) Visicalc Spreadsheet
- U006) Intro Maker
- U008) Sidney And Friends
- U011) XLS Disk 1
- U013) Clip Art
- U015) The Magicians Utilities
- U017) Steel Moon Utilities
- U019) CADV
- U021) Super C Disk
- U024) Red Devil Utils 4
- U026) Amibase V3.76
- U031) Bootbench
- U033) C-Light 1+2
- U035) System Checker
- U037) Tetra Copier
- U053) Text Plus Wordprocessor
- U056) Wordwright Wordprocessor
- U058) Running Man Update
- U060) Mag Media Disk Utilities
- U062) New Age Utilities
- U063) Pendle Europa Utils
- U065) Fonts
- U067) ICPUG Printer Utilities
- U069) XLS Best Of PD 3

**GAMES**

- G004) Breakout Construction Set
- G006) Star Trek (2)
- G008) Drip \*
- G010) Quiz Master 2
- G012) Popeye
- G014) Tennis \*
- G016) Flaschbier
- G018) Treasure Hunt
- G020) Wet Beaver Games
- G022) Workbench Games And Hacks
- G024) PD Games Compilation
- G026) Movie Games
- G028) Eatmine
- G030) Return To Earth
- G032) Klondike
- G034) Trek Trivia
- G036) Pipeline
- G019) Battleforce
- G021) Arcade Games
- G023) Star Trek The Next Gen.
- G025) UGA Games
- G027) Hack
- G029) PDOM Games
- G031) BIP
- G033) Stoneage
- G035) Jeopardy
- G041) Frantic Freddy

**DISK CATALOGUE 50p**

CONTAINS DETAILS OF ALL OUR DISKS AND IS UPDATED FREELY WITH EVERY ORDER. INCLUDES 2 FREE GAMES + A DEMO

We also stock APDL, Amicus, T-Bag and Fred Fish Disks.

All orders dispatched within 24 hours.

Buy now while the price is so low

Please add 50p postage + packing to all orders.

PLEASE MAKE ALL CHEQUES AND POSTAL ORDERS TO S.P.D.

**S.P.D. 62 MANOR ROAD, HASTINGS, E.SUSSEX, TN34 3LJ**



## AMIGANUTS UNITED



169 DALE VALLEY ROAD, HOLLYBROOK, SOUTHAMPTON, SO1 6QX.

Sorry - Now Mail Order only.

WORLDWIDE DISTRIBUTORS OF THE DEDICATED AMIGA CODERS CLUB DISKS  
EUROPEAN DISTRIBUTOR FOR THE WORLD FAMOUS T.BAG DISKS FROM  
MERLIN SOFTWARE

Into coding? - Want to learn? The Amiga Coders Club is for you! ACC 1-4 is the first four compressed issues of an excellent series for coders, even if you are new to the Amiga. If you want to learn Assembly, using DevPac, (or our own new ACC special assembler disk), this is the club for you! ACC 1-4 (compressed) £1.50. The Amiga Coders Club disks are packed with source, hints, tips, advice from many of the well known coders that are on the Amiga scene today. Issue numbers 5-15 are now available. Please note, (excluding the compressed introductory disk (ACC 1-4), and no. 12) the price for each issue of the ACC disks is only £3.00. ACC 12 is our birthday issue, it is a 2 disk set, and therefore the price is £6.00. Amiga Coders Club Special! Here is a low priced assembler package for all you coders out there in Amigaland. (See the review in last months Amiga Format) £5.00

### IT'S HERE AT LAST!

The complete two disk version of Mike Simpson's A-Gene.

**Price: Europe £15.00 Rest of World £20.00**

Get this Genealogy program now!

Note that excluding the T.BAG disks, none of the above programs is public domain. Prices include VAT but add the following to your order for return postage:- All EC countries (inc. UK) add 50p - Non EC £1.00 -

Rest of World add £2.00.

The final 1991 catalogue update is ready, send for your copy now!  
Only £1.00

### SUBSCRIBE SUBSCRIBE SUBSCRIBE

If you would like to get hold of the Amiga Coders Club disks as soon as they are published, why not send £33.00 and ask to go on the ACC mailing list now?

We will send you each issue as soon as it's ready, (applies to issue 14 onwards).

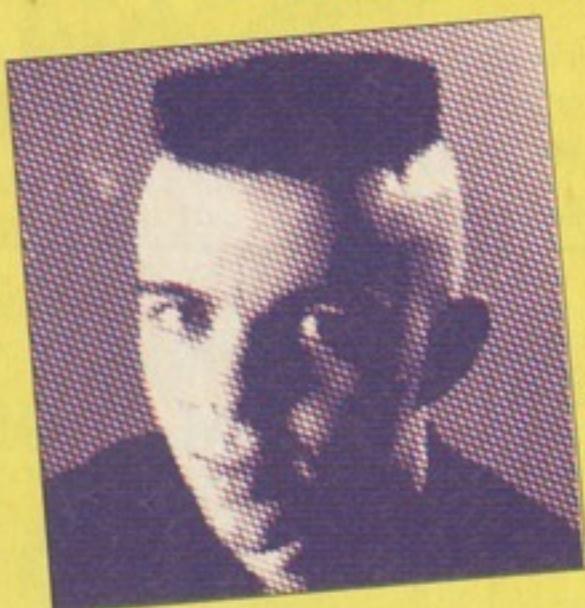
If ordering from outside the European community, add extra £6.00 for postage.

Please note that issues released prior to ACC 14 must be purchased separately.

If you would like to take out a year's subscription for the T.BAG disks (applies to issue 50 onward), simply send £33.00 and we will send you each issue well in advance of it becoming available from any other supplier. (Note that issues 50 to 55 are ready now and will be sent upon joining).

Issues released prior to T.BAG 50 must be purchased separately @ £2.00 each.

If ordering from outside the European community, add extra £6.00 for postage.



# Games Week

Ever determined to bring you the very latest in games technology Stuart Campbell bravely ventures into the unknown world of 'hologames'

## STAR RATINGS

- ★★★★★ = Batman
- ★★★★ = Superman
- ★★★ = Spiderman
- ★★ = He-man
- ★ = Piltdown man

## BLINDED BY SCIENCE

Fired by techno-lust, I set off last week for London to play Sega's latest Big Thing, the hologram game *Time Traveler*. Expecting, well, big things, I dropped a pound coin into the slot of the very New Age-looking machine (all clean white surfaces with the minimum of embellishments) and got ready to play... *Dragon's Lair*.

Yup, what we've got here is another laser-disk game where your control of the hero is limited to multiple-choice actions at critical points in the game, and every mistake gets you killed with no chance to save the situation. It's not quite as timing-sensitive as its legendary predecessor, making it easier (in fact, almost too easy) to make progress in it, but the feeling of only partial involvement is exactly the same.

## RODLAND

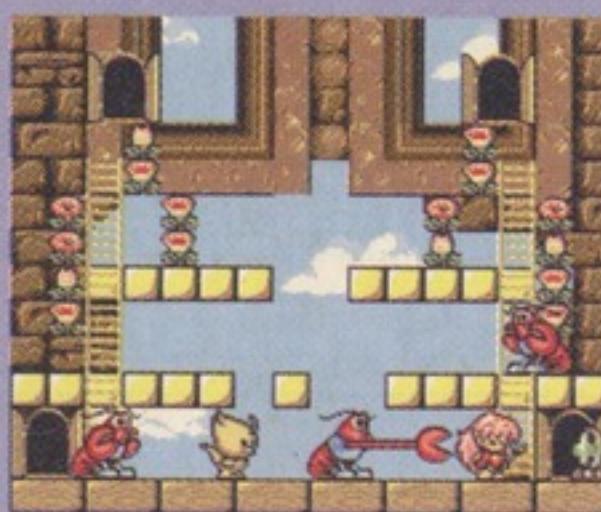
Storm • All formats • £25.99 • Not yet released

Very close to completion now is the Amiga release of Storm's conversion of the Jaleco coin-op *Rodland*. Billed as a game 'so cute it'll make you puke', *Rodland* actually features a fine line in Tom & Jerry-style slapstick violence, as the two fairy characters the players control despatch the game's bad guys by grabbing them with a magic rod and battering them from side to side repeatedly.

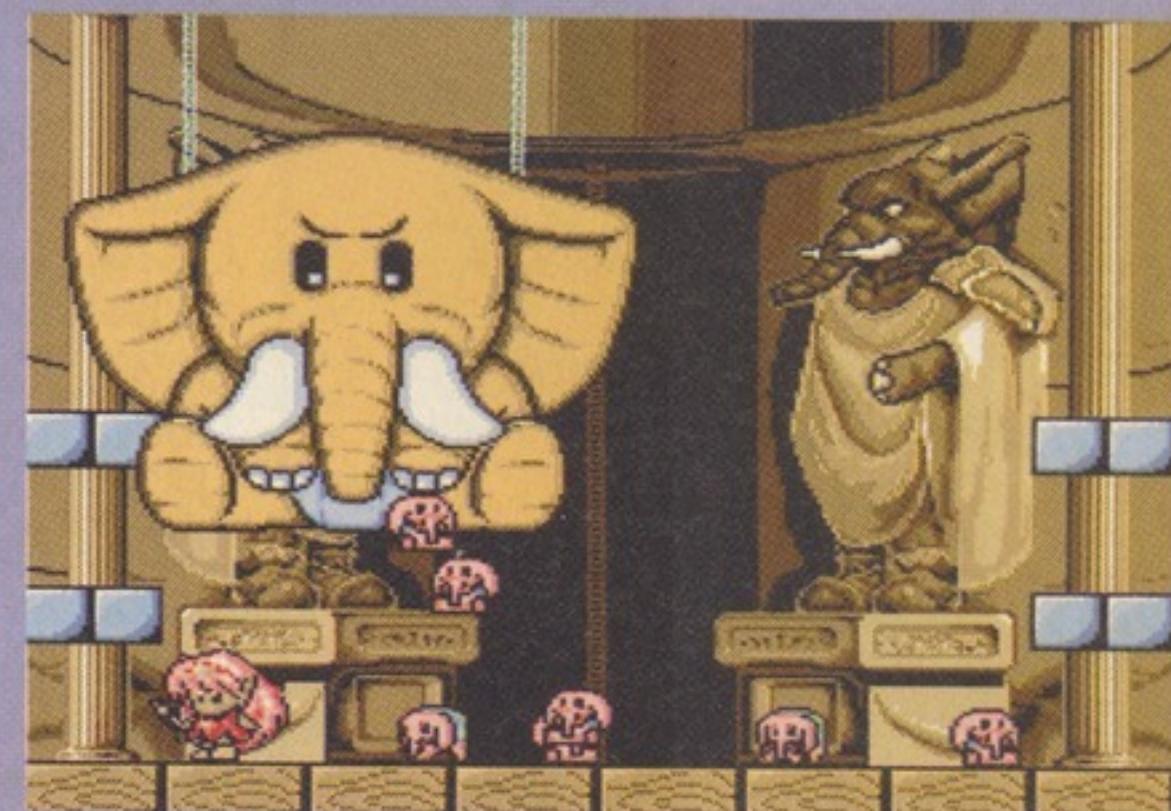
It looks great, as well as having tactical uses (you can use it just to flip a baddie away from you, or deflect attacks from other enemies by smashing the trapped one down on their heads). Although the game looks like a platformer very much in the *Rainbow Islands* tradition, closer inspection reveals that what we in fact have here is a game strongly reminiscent (in a number of ways) of what was possibly the first cutesy arcade game ever, *Mr. Do*.

Although platforms and ladders have replaced the underground tunnels of the early classic (converted on to almost every conceivable gaming format since, and due on the Game Boy any second now, trivia fans), much of the basic gameplay format is the same, and that's no bad thing in my book.

As for the graphics, they certainly live up to the promise in the ads, in that the cute-o-meter reading goes right off the scale.



But it wasn't a rock...it was a nasty old lobster



Dumbo's grandad gives Tam a hard time

Fluffy bunny rabbits, crying sharks, and the most adorably menacing squirrels you've ever seen are just a small proportion of the line-up of nasties ranged against you, and you'll love (killing) every single one of them.

Game graphics in general are gorgeous, with searingly bright colours and extra little bits of animation that didn't feature in the coin-op, and the sound effects are excellent too. All that remains to be done now is the in-game music, and if that's up to the standards of the rest of *Rodland* – and I can't see any reason to believe it won't be – we could be looking at one of the very best games of the year.

## TOP 10

ALL FORMATS FULL PRICE

THIS WEEK	LAST WEEK	TITLE	PUBLISHER	MACHINE
1	NE	Thunderhawk	Core Design	AG
2	1	Manchester United	Krisalis	SP CO AM ST AG
3	4	Rainbow Collection	Ocean	SP AM ST AG
4	4	Hero Quest	Gremlin	SP CO AM ST AG
5	5	Dizzy Collection	Codemasters	ST AG OT
6	8	Monkey Island	US Gold	ST AG OT
7	7	Teenage Mutant Hero Turtles	Mirrorsoft	SP CO AM ST AG OT
8	38	Emlyn Hughes International Soccer	Audiogenic	SP CO AM ST AG
9	7	SF15 Strike Eagle 2	Microprose	ST AG OT
10	6	Lemmings	Psygnosis	ST AG OT

ST = Atari ST AG = Commodore Amiga PC = IBM PC or compatible SP = Spectrum  
CO = Commodore 64 AM = Amstrad OT = Other. Chart compiled by Gallup. © European Leisure Software Publishers Assoc.

As for the much-trumpeted holographics themselves, they're pretty impressive but perhaps not quite as stunning as you might have expected.

Considering the enormous size of the machine, the area where the action takes place is actually very small, and the pictures are just a little fuzzy where fine detail is concerned.

Don't get me wrong, this is a fabulous-looking game, and it's almost certainly a vision of the future of video games, but anyone who bothers to stick at it to the end won't find they've actually spent too much money (there's not a lot of it, and what there is isn't very taxing),

and they're certainly unlikely to want to play it again.

The extremely bitty nature of the gameplay lacks the dramatic flowing storyline evident in *Dragon's Lair*, *Space Ace* and the other games of that era, and once the initial buzz dies down I don't think you'll find the crowds around this machine that were always to be seen near its ancestors. (Partly, it must be said, because the angles of visibility around the game are pretty narrow, so if you're not standing more or less in front of it you don't get to see very much, which discourages mob interest). In fact, in the two busy city-centre arcades

## BEG, BORROW AND BURN

Another look at the wonderful, the so-so and the truly appalling

### BEG

HEAD OVER HEELS • The Hit Squad

8-bit owners have been enjoying this absolutely classic piece of arcade adventuring gorgeousness for years now, but after many delays the ST and Amiga versions are finally with us too. Nothing's been changed, except for the addition of a bit of extra colour, but what that means is that this is exactly the same unfeasibly magnificent game that it always was. Whatever your machine, go out and get this today.

### BORROW

BUBBLE BOBBLE • The Hit Squad

Pairs of players have been enjoying this absolutely classic piece of platform dinosaur-related fun for years,

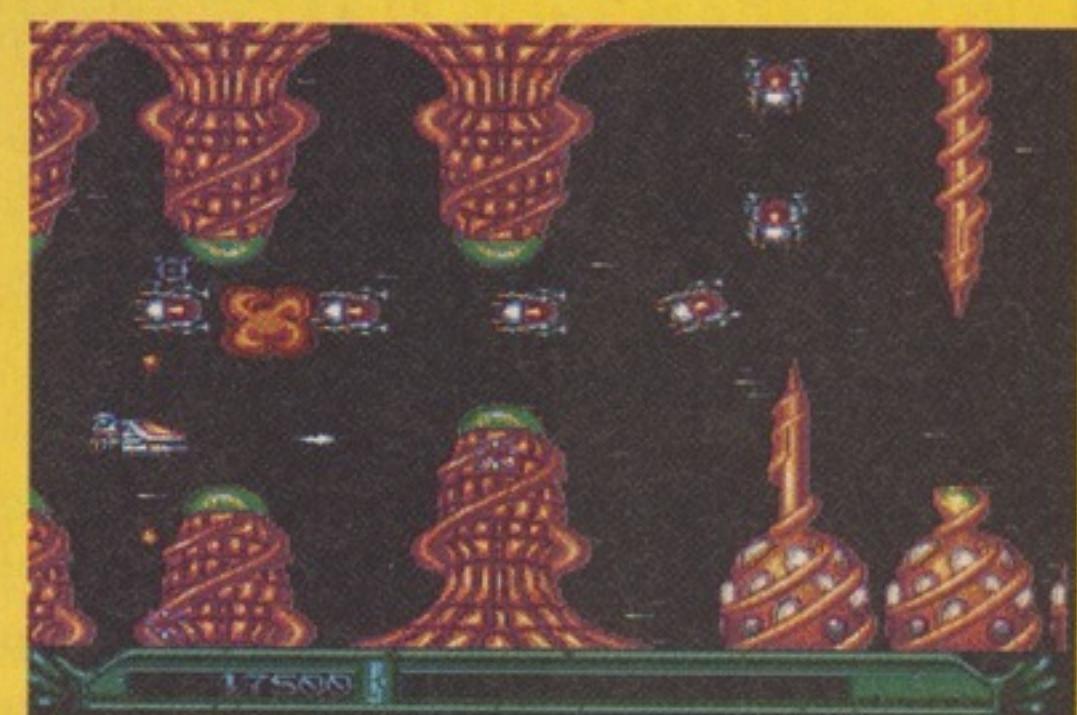
and now it's available on budget (or in Ocean's Rainbow Collection compilation) at a giveaway price on all formats. Played solo, though, you're likely to tire of it quickly, so be wary if you don't have a good friend to hand on a regular basis. Go out and take a look anyway, though.

### BURN

ARMALYTE • Thalamus

C64 owners have been enjoying this absolutely classic piece of arcade blast-'em-uppy for years, but now Thalamus has brought it bang up to date for the 16-bit machines, and what a pig's ear they've made of it.

The graphics are lovely, but the game is so tough that almost no-one will be able to see many of them, and presentation is stupidly thoughtless into the bargain.



If you think this looks like a game worth buying, get your eyes tested

where I saw it, the machine was often left unattended for long periods of time in favour of the latest bog-standard beat-'em-ups and zappers, which is a bit of a worrying sign for what's supposed to be a revolution in video gaming.

The real worry, though, is that if *Time Traveler* isn't a huge success (and I fear it won't be), the flurry of excitement will fade away and, as happened with the first laser disk games, a potentially incredible avenue of development will be left unexploited.

### HERE IT COMES AGAIN

Under my bed I keep a huge box of faxes I've had from people saying 'Yo, Stuart, I've been chillin' in the area for months now, but I still haven't really managed to find any games with the letter 'V' in their names. Rave on. I haven't actually got a fax machine myself, so I haven't been able to reply to them until now. I think it's time I put that right with a round-up of all the top re-releases in that very category...Games with the letter V in their name

#### VIGILANTE • Kixx • £7.99 for 16-bits, £3.99 for 8-bits

An arcade beat-'em-up most remarkable for having the objective of rescuing a kidnapped Madonna, *Vigilante* was all the same a pretty respectable kickin' and punchin' potboiler in the *Kung Fu Master* tradition.

While this conversion captures the look almost perfectly, someone obviously decided at some point that the less-than-breathtaking speed of the original was still just a bit too much for your average punter and slowed the whole thing down to a point where if you weren't careful, you could actually find yourself going back in time while you were playing it, ending up at the finish sequence of the

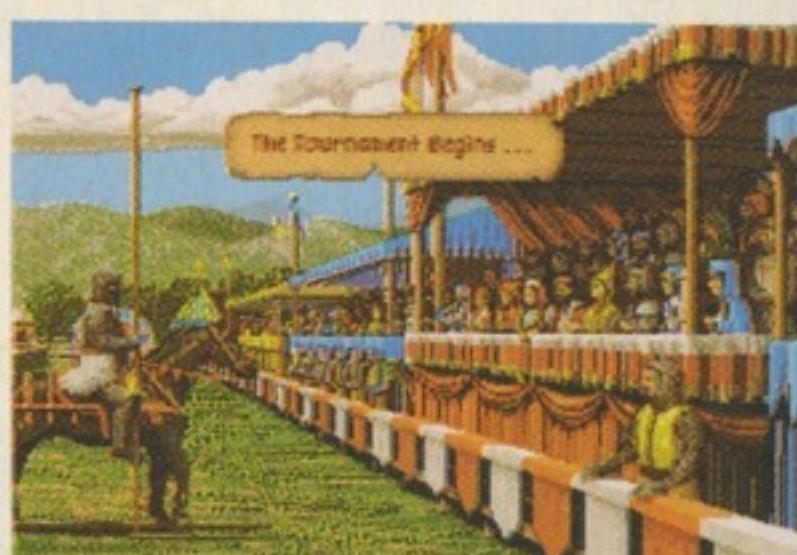
THIS WEEK	LAST WEEK	TITLE	PUBLISHER	MACHINE
1	1	New Zealand Story	Hit Squad	SP CO AM ST AG
2	3	Bubble Bobble	Hit Squad	SP CO AM ST AG OT
3	2	Shinobi	Mastertronic	SP CO AM ST AG OT
4	4	Cabal	Hit Squad	SP CO AM ST AG
5	17	Dizzy Panic	Code Masters	SP CO AM
6	6	Magic Land Dizzy	Codemasters	SP CO AM
7	8	Double Dragon	Mastertronic	SP CO AM ST AG OT
8	16	The Match	D&H Games	SP CO AM
9	10	Multimixx 1 Golf	Kixx	SP CO AM
10	14	Dragon Ninja	Hit Squad	SP CO AM ST AG

ST = Atari ST AG = Commodore Amiga PC = IBM PC or compatible SP = Spectrum  
CO = Commodore 64 AM = Amstrad OT = Other.  
Chart compiled by Gallup. © European Leisure Software Publishers Assoc.



#### • Vigilante - whatever you do, don't Stop Me And Buy One

game some three hours before you'd actually got up that morning. While this temporal quirk did have its advantages



#### • DOTC - joust a load of old guff?

(Missed the bus? Forgotten that important appointment? Just put on your suit, have a couple of quick games of *Vigilante* and bingo!), it failed spectacularly to provide anything very much in the way of entertainment. A veritable day trip to Dullsville, in fact. ★

#### BEACH VOLLEY • The Hit Squad • £7.99 for 16-bits only

One of the first 16-bit only games from the Manchester software behemoths, *Beach Volley* was most interesting for the fact that Ocean picked for this groundbreaking step a game so simplistic that it could have run on a VIC-20 without expansion.

Two-a-side volleyball doesn't allow for a lot of scope in the gameplay department, and indeed you don't get any. Scope or gameplay, that is.

The graphics did the state-of-the-art machines proud, but the controls were appalling and the characters leapt around so enthusiastically that to be able to anticipate their movements well enough to hit the ball at any point called for the skills of a crystal ball reader and the reactions of a Siamese twin.

### OSCAR CORNER

Oscar The Grouch, that is. You'll have noticed that there aren't any playing tips in the column this week, and it's because I've got a question to ask.

There's something that's been puzzling me ever since I started doing this job. Why do people send in game cheats that don't work? Every day our mailbag bulges with letters from people claiming to have 'discovered' some password or code for some game or other, only to have it checked out and found to be completely useless. (Like, someone actually sent in a 'cheat' the other week for *Xenon 2* by the Bitmap Brothers, a team who've gone on record as saying they never put cheat modes in their games. Needless to say, it didn't work.).

What do they get out of it? Is it some sort of sad cry for help, a little 'notice me' plea, or is it all some incomprehensible joke? I don't get it.

Even if one slips through unchecked, all it achieves is to make the sender look stupid when 20,000 people try it out with no success and think 'Hmph, what a prat'. Please don't do it.

This was the kind of game people loaded up and left running in computer shops to impress passers-by, but no-one ever actually played it very much. There's no reason for that to change now. ★

DEVENDER OF THE CROWN • Mirror Image • £10.99 on 16-bits only  
No, sorry, this is a joke. In both senses. ★

### FISHPASTE CORNER

More strange-but-true snippets that the industry would rather you didn't know about.

• Top Bitmap Brother Eric Matthews is really a woman, and only appears in moodily-lit publicity shots wearing shades to conceal his true identity.

• Image Works' top god game *Mega Io Mania* is actually based on a concept stolen from a 1979 Commodore Pet game called '*Mussolini*'.

• The Amiga version of top classic puzzle game *Tetris* was programmed in a drunken haze one night 'for a joke'.

• Roger Bennett of top industry watchdog body ELSPA was once a chimney sweep, but gave the job up for health reasons.

• Top dead industry figure Gary Penn's last words before his grisly murder were the prophetic 'There's nothing big or hard or clever about enormous guns', uttered after playing a preview copy of US Gold's *Alien Storm*.

• Author of *Populous* Peter Molyneux was once refused an entry visa to the USA on the grounds of being a suspected top Communist.

• There weren't many interesting games released this week.

### DARKMAN

Ocean • Spectrum • £9.99 ★★



#### • Darkman cleverly demonstrates his chameleon-like disguise...

Seasons come and seasons go, but in these ever-changing times of attempted coups and global uncertainty there's always one thing you can rely on - Ocean movie licence games.

The latest one to hit the Speccy (and of course all the other formats, although the actual game differs from machine to machine) is Sam Raimi's *Darkman*, the not-all-that-big pseudo-superhero 'hit' from a few months back, now languishing on video shop shelves all over the country. The Spec game takes the usual format, lots of little sub-games themed on various parts of the movie, with the standard mix of beat-'em-up bits, platform bits, beat-'em-up platform bits, you know the story.

The first section puts our disfigured hero in Chinatown (heavily disguised as a

burst-scrolling *Double Dragon*-ish fighting sequence), where he finds himself pitted against a motley crew of villains who - gallantly, I think - always take him on two or three at a time.

Other hazards include dogs, deadly blobs which drift across the screen in pairs, and the complete boredom which inevitably sets in after half-a-minute or so. Next there's a quick throwaway shooting gallery sequence (though nominally you're taking photographs, it still amounts to the same old *Op Wolf* stuff), and then on to the platforms-and-ladders section. This features much the same shallow and simplistic beat-'em-up stuff as the Chinatown level, but with less colour and more danger.

The difficulty level is in fact one of the better things about this game, it's certainly



The Chinatown street level - it's a road of clap



#### • Ha! Darkman proves too clever for the thicky bad guys

not easy, but the problem is that there isn't any incentive in the way of exciting or involving gameplay to make you want to stick at the challenge.

The truth of the matter is, by the time I'd made it to the next level (the none-too-thrilling rooftop 'chase') I was already playing the game purely out of duty. After losing my last life and having to restart right back in Chinatown I thought 'Bugger duty, I'm not playing this old tosh any more' and binned it.

It could be said that *Darkman* was fighting a losing battle from the start, being based on a not-very-successful film, but there really isn't any excuse for such a tired and unrewarding game as this. Justice may have a brand new face, but it's the face of a clown.

# FROM THE MAKERS OF NEW COMPUTER EXPRESS...

Stylishly covers games, graphics, music, shareware - everything, in fact, other than the serious business stuff

Page after fact-packed page full of stunning reviews and authoritative advice solely dedicated to the full panoply of PC leisure activities

Combines the rigour and professionalism of PC Plus with the style and editorial philosophy of Amiga Format

September 1991 • Issue Zero

PC FORMAT 5

The Modern Guide To Personal Leisure Computing

£3.25

2.5-inch disks with this copy - also available with 3.5-inch disk

9 770961 273003 Future PUBLISHERS Your guarantee of value

HOW TO JOIN THE SOUND REVOLUTION

Find out how a soundcard will transform your world

Q & A Get the most out of your PC with our section of essential hints, tips and tricks

THE PC FORMAT DISKS

MiG-29 SUPER FULCRUM

Stunning playable demo of Domark's extraordinary new flight simulator.

...SPEEDBALL 2

Playable demo of the amazing action game from the Bitmap Brothers.

No Coverdisks? Then ask for them from your newsagent. 2x5.25-inch disks with this copy.

PLUS...

Graphics

Discover a visually stunning new dimension to your PC

The 50 best games EVER!

We name the games you won't want to miss

Discover the secrets of Monkey Island

Gasp! What have you done to me Threepwood?

I've simply followed the comprehensive guide in this very magazine, you grog-breathed ghoul!

Games, Graphics, Music, News, Reviews, Beginners' Guides, Comms, Competitions, Playing Guides, Public Domain and more - every issue

Practical tutorials and reliable buyers' guides written by acknowledged PC experts

Writes about games in an adult but still exciting manner

Program-packed cover disks: one 3.5-inch or two 5.25-inch, showcasing irresistible games and leisure demos from the leading publishers

...YOUR GUIDE TO A NEW PC WORLD.  
AT A NEWSAGENT NEAR YOU FROM  
THURSDAY 26 SEPTEMBER



### 1040ST-E FAMILY CURRICULUM PACK

The Family Curriculum Pack comes with a 1040ST-E computer and mouse plus 5 software modules (3 titles in each), one for every age range. The combination of education, creative and business software from Atari, plus the FREE entertainment and productivity packs from Silica, makes for a package the whole family can enjoy!

PLUS! FREE HOLIDAY ACCOM

1Mb 1040ST-E + MOUSE ..... £399.99  
 1. PLAY & LEARN ..... £76.59  
 2. JUNIOR SCHOOL ..... £58.54  
 3. GCSE REVISION ..... £55.54  
 4. BUSINESS COMPUTING ..... £159.85  
 5. CREATIVE COMPUTING ..... £134.97

PLUS! FREE FROM SILICA  
 TENSTAR PACK ..... £219.78  
 PRODUCTIVITY PACK ..... £104.97

TOTAL VALUE: £1210.23  
 YOU SAVE: £811.23

**£399**

SILICA PRICE - INC VAT + FREE DELIVERY

RETURN THE COUPON FOR A  
**FREE!** COLOUR  
 CATALOGUE

<b>HARDWARE:</b>	
512K 520ST-E + MOUSE	£329.99
<b>ENTERTAINMENT SOFTWARE:</b>	
ANARCHY - Arcade Game	£19.99
DRAGONS BREATH - Adventure	£29.95
INDIANA JONES - Arcade Adv	£19.95
SUPER CYCLE - Racing Game	£19.95
<b>PRODUCTIVITY SOFTWARE:</b>	
CONTROL.ACC - Utility Software	FREE
EMULATOR.ACC - Utility Software	FREE
FIRST BASIC - Programming	£49.99
NEOCHROME - Art Package	£29.99
ST TOUR - Tutorial	£4.99
<b>JOYSTICK CONTROLLER:</b>	
ATARI CX40 JOYSTICK	£4.99
<b>PLUS! FREE FROM SILICA:</b>	
TENSTAR GAMES PACK	£219.78
PRODUCTIVITY PACK	£104.97
<b>TOTAL VALUE:</b>	
<b>YOU SAVE:</b>	
<b>SILICA:</b>	
<b>£329</b>	

**PLUS! FREE  
 HOLIDAY  
 ACCOMMODATION**

**£329**

### ATARI 520ST-FM DISCOVERY PACK

**£279**

INC VAT + FREE DELIVERY + FREE TENSTAR & PRODUCTIVITY PACKS

**ATARI ST - MORE THAN JUST GREAT GAMES!**

**FREE!**

FROM SILICA  
 WITH EVERY

**ATARI ST**

### TOTAL FREE PACKAGE

<b>TENSTAR GAMES PACK - £219.78:</b>	
Asterix - By Coktel Vision	£24.99
Chess Player 2150 - By CP Software	£24.95
Drivin' Force - By Digital Magic	£19.95
Live & Let Die - By Elite	£19.99
Onslaught - By Hewson	£19.99
Pipe Mania - By Empire Software	£24.99
Rick Dangerous - By Firebird	£24.99
Rock 'n' Roll - By Rainbow Arts	£19.99
Skweek - By US Gold	£19.99
Trivial Pursuit - By Domark	£19.95
<b>PRODUCTIVITY PACK - £104.97:</b>	
1st Word - Word Processor	£59.99
Spell It! - Spell Checker	£19.99
ST Basic - Programming Language	£24.99

**TOTAL RRP: £324.75**

**FREE!**  
 WORTH  
 NEARLY:  
**£325**

**PLUS! FREE HOLIDAY ACCOMMODATION**

### SILICA SYSTEMS OFFER YOU

- FREE OVERNIGHT COURIER DELIVERY: On all hardware orders shipped in the UK.
- TECHNICAL SUPPORT HELPLINE: Team of Atari technical experts at your service.
- PRICE MATCH: We normally match competitors on a "Same product - Same price" basis.
- ESTABLISHED 12 YEARS: Proven track record in professional computer sales.
- BUSINESS + EDUCATION + GOVERNMENT: Volume discounts available for large orders.
- SHOWROOMS: Demonstration and training facilities at our London & Sidcup branches.
- THE FULL STOCK RANGE: All of your Atari requirements from one supplier.
- FREE CATALOGUES: Will be mailed to you with offers and software/peripheral details.
- PAYMENT: By cash, cheque and all major credit cards.

Before you decide when to buy your new Atari ST computer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after buying your ST, when you may require additional peripherals or software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest Free literature and begin to experience the "Silica Systems Service".

**MAIL ORDER HOTLINE**  
**081-309 1111**

**SILICA  
 SYSTEMS**

<b>MAIL ORDER:</b>	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-309 1111
Order Lines Open:	Mon-Sat 9.00am-6.00pm	No Late Night Opening
<b>LONDON SHOP:</b>	52 Tottenham Court Road, London, W1P 0BA	Tel: 071-580 4000
Opening Hours:	Mon-Sat 9.30am-6.00pm	Late Night: Thursday until 8pm
<b>LONDON (SELFRIDGES):</b>	1st Floor, 369 Oxford Street, London, W1A 1AB	Tel: 071-629 1234
Opening Hours:	Mon-Sat 9.30am-6.00pm	Late Night: Thursday until 8pm
<b>SIDCUP SHOP:</b>	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-302 8811
Opening Hours:	Mon-Sat 9.00am-5.30pm	Late Night: Friday until 7pm

To: Silica Systems, Dept NCE 0991 - 63, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

**PLEASE SEND FREE ATARI COLOUR CATALOGUE**

Mr/Mrs/Ms: ..... Initials: ..... Surname: .....

Address: .....

Postcode: ..... Tel: .....

Which computer(s), if any, do you own? .....

E&OE - Advertised prices and specifications may change - please return the coupon for the latest information.

## PREVIEW

# READY FOR MORE? THEN GET READY FOR NEXT WEEK

## - AND OUR NEXT TRI-FORMAT COVER DISK!

Yep, *Express*' world-exclusive disk format is beaming its way to you in just seven days time with another jam-packed bumper batch of cracking code. So, if you're looking for some great and gripping gratis software for your Amiga, ST and PC – and let's face it, who isn't – you'll find it right on here, all on the same disk!

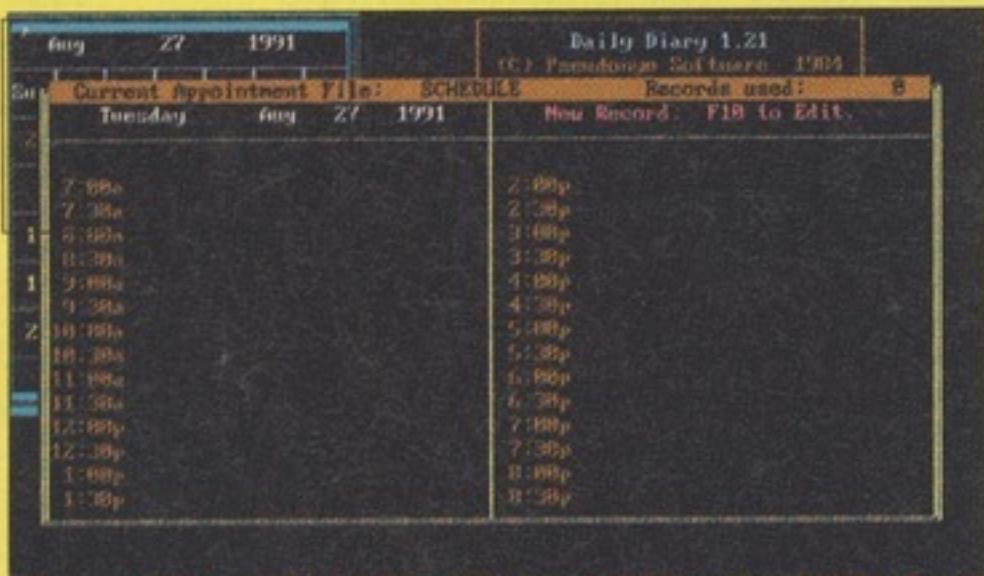
So how are we going to top our first earth-shattering achievement? With another one of course! Just take a look at what's coming your way with next week's issue:



• **Missile Command** – a real blast!

**Kaosdesk** – a replacement desktop that's better than most commercial offerings **AND** **Fractal Landscape**

– generate incredible fractal images with ease



• **Daily Diary** – sort your life out!

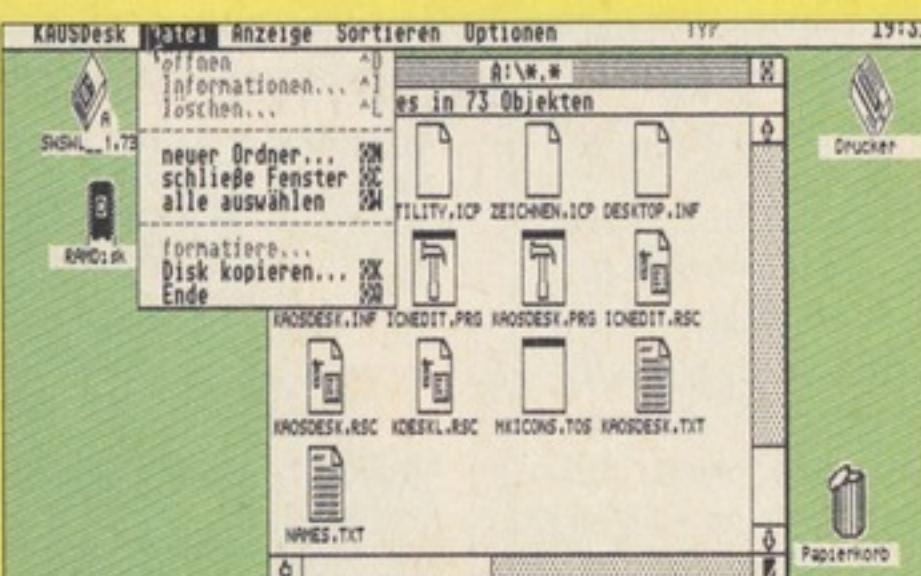
### FOR YOUR AMIGA:

**Missile Command** – the original all-time classic arcade game in its fullest glory **AND** **Concentration** – a real brain teaser to while away what's left of the summer

### FOR YOUR ST:

**Kaosdesk** – a replacement desktop that's better than most commercial offerings **AND** **Fractal Landscape**

– generate incredible fractal images with ease



• **Kaosdesk** – a complete face-lift!

### FOR YOUR PC:

**Daily Diary** – discover where all your time disappears with this handy program **AND** **Commander Keen** – yet another brilliant arcade game

**PLUS: ALL THE LATEST RED HOT NEWS, REVIEWS, PREVIEWS AND VIEWS ON ALL THAT'S HAPPENING IN THE WONDERFUL WORLD OF COMPUTING! AND MUCH MUCH MORE...**

**YEP, THE PACE OF COMPUTING HAS JUST TRIPLED!**

**BUT MAKE TRIPLE SURE YOU GET YOUR COPY!**

Complete this form and hand it to your newsagent

TO THE NEWSAGENT:

Please reserve me ..... copy/copies of *New Computer Express* every week, beginning with issue 149, out on 12th September.

NAME .....

ADDRESS .....

POSTCODE ..... PHONE NO ..... DAY ..... EVENING

To the newsagent: *New Computer Express* is published by Future Publishing and is available from your local wholesaler. Send back all your Future shop save coupons for entry in a free draw to: Kate Hodges, Future Publishing, 30 Monmouth Street, Bath BA1 2BW.

EDITOR • Andy Storer  
NEWS EDITOR • Tim Smith  
PRODUCTION EDITOR • Julie Tolley  
TECHNICAL EDITOR • Keith Pomfret  
ART EDITOR • Amanda Cook  
DISK EDITOR • Tim Howell  
STAFF WRITER • Dave Golder  
GAMES REVIEWER • Stuart Campbell

CONTRIBUTORS

- Jason Holborn • James Leach
- Rod Lawton • Paul Rigby
- Ian Wrigley • Haydn Fitz-Williams
- Ed Ricketts • Robin Alway
- Andrew Roberts • Neil Jackson
- Jason Saunders • Onn Lee

CIRCULATION DIRECTOR • Sue Hartley  
AD MANAGER • Mike Jennings  
SENIOR SALE S EXEC • Tim Partridge  
AD EXECUTIVES • Charlie Nicholls  
• Siobhan Kennedy-Coyne  
AD PRODUCTION • Frances Wasem  
AD TYPESETTING • Terry Mackereth  
PRODUCTION TECHNICIANS  
• Simon Windsor • Chris Stocker  
• Jerome Clough  
PUBLISHER • Steve Carey

ABC audited circulation January-June 1990: 20,214 copies per week  
We regret we cannot enter into any personal correspondence. Technical enquiries should be addressed to Tech Tips at the address below.

While every care is taken in the preparation of *New Computer Express*, Future Publishing cannot be held responsible for the consequences of any errors that may occur.

- Subscriptions: The Old Barn, Somerton, Somerset (0458) 74011
- Printed by Redwood Press, Melksham, Wilts
- Distributed in UK and Eire by Future Publishing (0225 442244), rest of world by Comag (0895 44055)
- Future Publishing Ltd 1991  
30 Monmouth Street, Bath BA1 2BW

CONTACTS

Tel: 0225 442244 Fax: 0225 480325  
E-mail: ASPECTS: 061 792 0260  
CIX @ astoer  
GOLD @ 84:TXT152  
PRESTEL @ 0112623

Your guarantee of value

This magazine comes from Future Publishing, a company founded just six years ago, but which now sells more computer magazines than any other publisher in Britain. We offer:

Better advice. Our titles are packed with tips, suggestions and explanatory features, written by the best in the business.

Stronger reviews. We have a cast-iron policy of editorial independence, and our reviews give clear buying recommendations.

Clearer design. You need solid information fast. So our designers highlight key elements by using charts, diagrams, summary boxes, annotated photographs, etc.

More reader interaction. We draw strongly on readers' contributions, resulting in the liveliest letters pages and the best reader tips. Buying one of our magazines is like joining a nationwide user group.

Better value for money. More pages, better quality: magazines you can trust.

**Future**  
PUBLISHING

Home of Britain's finest computer magazines.

New Computer Express  
Amiga Format • ST Format • PC Format  
Amiga Power • Amiga Shopper  
PC Plus • PC Answers • 8000 Plus  
Public Domain • Amstrad Action  
Sega Power  
Commodore Format • Your Sinclair



Dept NCE, Unit 8A, Acorn Farm Business Centre, Cublington Road, Wing, Near Leighton Buzzard, Beds. LU7 0LB  
Note our new address ORDER HOTLINE: 0296 682277 FAX: 0296 682290



## PROFESSIONAL SOFTWARE FOR YOUR AMIGA

### ACCOUNTS

Arena Accounts .....	134.99
Home Accounts .....	22.99
Personal Accounts + .....	28.99
Small Business Accounts Equ .....	65.99

### DATABASES

K Data.....	35.99
Superbase Personal 2 .....	29.99
Superbase Prof 4.....	299.99

### EDUCATIONAL

Fun School 2 Under 6 .....	13.99
Fun School 2 6-8 .....	13.99
Fun School 2 Over 8 .....	13.99
Fun School 3 Under 5 .....	16.99
Fun School 3 5-7 .....	16.99
Fun School 3 Over 7 .....	16.99
French Mistress .....	13.99
German Master.....	13.99
Italian Tutor.....	13.99
Mavis Beacon Teaches Typing .....	19.99
Spanish Tutor .....	13.99
Spell Book 4-9 .....	14.99
Things to do with Numbers.....	14.99
Things to do with Words .....	14.99

\* Product not yet released  
All prices include VAT. All goods subject to availability. Prices subject to change without notice. E&OE

### GRAPHICS/ANIMATION

Amos .....	32.99
Amos SD .....	32.99
Amos Compiler .....	24.99
Deluxe Paint 3 .....	59.99
* Deluxe Paint 4 .....	79.99
Deluxe Photolab .....	49.99
Deluxe Print 2 .....	34.99
Deluxe Video 3 .....	59.99
Digimate 3 .....	25.99
Digimate 3 .....	59.99
Digiview Gold .....	89.99
Disney Animation Show .....	59.99
Movie Setter .....	49.99
Photon Video .....	24.99
Pixmate .....	34.99
Photon Paint 2 .....	19.99
Professional Draw 2 .....	96.99
Spectra Colour .....	57.99
Tiger Cub .....	57.99

### SPREADSHEETS

Advantage .....	62.99
Digicalc .....	27.99
K Spread 3 .....	76.99
Maxiplan 500 .....	39.99
Superplan .....	39.99

### MUSIC/SOUND

Amas .....	79.99
Audio Master 3 .....	47.99
Bars + Pipes Prof .....	189.99
Deluxe Music Cons Set .....	49.99
Mastersound .....	32.99
Music X .....	89.99
Music X Junior .....	49.99
Perfect Sound 3 .....	64.99
Quartet .....	34.99
Sonix .....	49.99
Soundtrap 3 .....	39.99
Techno Sound Turbo .....	25.99

### UTILITIES/PERIPHERALS

1/2 Meg upgrade with clock .....	34.99
1/2 Meg upgrade without clock .....	29.99
3.5" DDSQ (10) .....	9.99
Amiga 500 Dust Cover .....	3.99
Disk Cleaning Kit .....	2.99
Mouse Mat .....	4.99
Naksha Mouse .....	25.99
Devpac 2 .....	44.99
Digiview 4 .....	119.99
Hi Soft Basic .....	59.99
Lattice C V5 .....	169.99
Vidi Amiga + Vidi Chrome .....	109.99
Vidi Chrome .....	16.99
Vidi RGB Splitter .....	64.99
40 lockable disk box .....	5.99
80 lockable disk box .....	7.99

### JOYSTICKS

Comp Pro Blank .....	10.99
Comp Pro Extra Clear .....	13.99
Comp Pro Combat Extra .....	12.99
Comp Pro Star Extra .....	13.95
Quickshot Vytton .....	9.99
Quickshot Apache .....	5.99
Quickshot Flight Sim .....	9.99
Quickshot Maverick .....	13.99
QuickJoy Topstar .....	19.99
QuickJoy Jetfighter .....	12.99

### STRATEGY/SIMULATIONS

A10 Tank Killer .....	22.99
F19 Stealth .....	19.99
F29 Retaliator .....	16.99
F15 Strike Eagle 2 .....	22.99
Falcon Mission Disks 1 & 2 .....	22.99
Flight of Intruder .....	22.99
Flight Simulator 2 .....	23.99
M1 Tank Platoon .....	19.99
Mig 29 .....	19.99
Sim Earth .....	19.99
Team Yankee .....	19.99
UMS 2 .....	20.99

### HOW TO ORDER

ORDER BY PHONE: Phone our order hotline (0487 3343) with your Access/Visa card quoting card number, name of holder, and expiry date.

ORDER BY POST: cheques or postal orders payable to "CONNECT INTERNATIONAL". Please send name, address and daytime telephone number along with your order req.

FREE POSTAL DELIVERY (£1 overseas)  
Please allow up to 28 days delivery.

## The 'Worlds Best' just got better!

### Sampler Software Collection

You have an idea of the software you want - but can you find it? - NO. Why can't you get a set of demo programs to try? - Well, now you can

There are over 13,000 files to try on this software collection in areas as diverse as Wordprocessing, games, spreadsheets, programming, databases and many more.

Programs for you to try in the comfort of your own surroundings and, when you've found the program you want, simply send the author the cost and in return you'll receive the most recent version of the software and any other files or documentation as may be necessary - OFTEN AT A MUCH LESSER PRICE THAN EQUIVALENT COMMERCIAL SOFTWARE.

If ever you needed a reason to buy a CD-ROM drive - this is it! Look at these other features too:

- a. Search for files by filename, category or description and decompress direct to disc!
- b. Incorporates a complete BBS. Run your own BBS in minutes.
- c. Unique Sound blaster file collection
- d. Windows section now contains over 300 files
- e. Audio track describes installation and a tutorial

This is the Micro Haus General Shareware Disc Vol 2. All files current as at 1 Sep 91

### The Games Collection Volume 1

There's something for everyone in this top-rate Games Compendium. A superb collection of 6 top selling game titles from respected software house Microprose. Titles are:

- a. Midwinter
- b. Gunship
- c. Rick Dangerous
- d. Microprose Soccer
- e. 3D Pool
- f. Savage



These games aren't stocking fillers THEY ARE TOP SELLING QUALITY LEISURE SOFTWARE. Save pounds by buying your collection on CD-ROM - it's half the price of buying magnetic media! and your collection resides on one disc - not a bag full of floppies. All the manuals, keyboard overlays and other documentation is included.

### The CD Drive

GenSTAR 2000 External CD-ROM drive. Complete with all cables and leads to connect to a PC. Complete with 4 free software titles - only £350 + VAT

You need a CD-ROM drive but they cost the earth - right?  
WRONG - Just look at this offer:

**The CD-Rom Store**

  
MICRO HAUS  
LIMITED

Please Note : All cheques and correspondence should be addressed to Micro Haus Ltd

